ADOPTED





FY 2011 - 2015

Technology Investment Plan

Executive Summary



What is the TIP?



The Technology Investment Plan (TIP) is the City's Five (5)-Year Plan for significant Information Technology (IT) Capital Investment, Replacement and Refresh required for all citywide Infrastructure and Enterprise Application environments



It is updated based on citywide priorities, continuous business re-alignment, technology development and is

re-forecast to adhere to the most current, best practices

All CTO departments submit Form As describing
TIP projects and asset replacement/refresh requirements;
identifying anticipated return on investment (ROI) and
potential impact to operating budgets (i.e. savings, maintenance, FTEs)
planning all necessary annual budgetary requirements

The TIP resembles the City's Capital Improvement Plan (CIP) in terms of organization and recognizes, as does the CIP, that significant asset refresh and upgrades

and technology shifts are cyclical and generally occur over the economic life of the assets

The TIP presents planned appropriations by department to be submitted for Council Approval.

Technology projects adhere to similar CIP project phasing including Assessment, Design and Implementation

CITY OF HOUSTON

Technology Investment Plan

Oversight? Who manages the TIP?



Technology Steering Committee (TSC)



Information Technology Department

Richard Lewis, Chief Information Officer & TSC Chair

Earl Lambert, Deputy Director, Citywide Chief Technology Officer

Gary Morris, Deputy Director, Citywide Infrastructure

Thomas Sorley, Deputy Director, Citywide Radio Communications

Mark Stinnett, Assistant Director, ITD Chief Technology Officer

CTO Departments Chief Technology Officers (CTOs)

Aviation Matt Hyde

Fire Patrick Plummer

Health and Human Services Vernon Hunt

Houston Emergency Center Al Garcia

Library Ronald Stauss

Planning and Development Max Samfield

Police David Morgan

Public Works and Engineering Olgilvie Gericke

Municipal Courts Administration Rex Billings

Non-CTO or Other Departments / Divisions * Mark Stinnett

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^{* 3-1-1} Online Service Requests, Affirmative Action and Contract Compliance, City Secretary, Convention & Entertainment, Finance, ARA, General Services, Housing, Human Resources, Information Technology, Legal, Parks and Recreation and Solid Waste Management

INFORMATION TECHNOLOGY DEPARTMENT Richard Lewis, CIO

CITY OF HOUSTON

Technology Investment Plan

What Guides the TIP?



VISION

To be an information technology organization recognized for collaborative partnerships, proactive leadership, strategic innovation, and quality customer service.

MISSION

To improve the quality of services to our customers (citizens and employees) on a daily basis through cross-functional teamwork while minimizing operating expenses and improving the City's business processes.

VALUES

- Professional focus and initiative
- Invest in our employees
- Reward success and value lessons learned
- Expect high levels of productivity and excellence
- Operate with integrity to build trustful relationships and dependability

Pro-active Structure

Improve infrastructure, core business processes and provide effective citywide management structure

- Emphasize system simplicity
- Standardize enterprise architecture to reduce complexity
- Executive accountability
- Plan annual replacement requirements

Efficiency

Align IT resources with City business objectives and balance effectiveness / efficiency to:

- Reduce operating cost
- Limit growth to the workforce
- Improve services to citizens / employees

Security

Continuously strengthen IT security through Network Re-Design, Hardware/Software Enhancements, Multi-Layering Approaches, Policy and Procedure, and in the future, Mandatory Training/Testing, Incident Response, Regular Performance Assessments and Random Audits

Transparency

" Introducing the New TIP IMPACT System "

Allows CTOs to Enter and Update TIP Form As Online Provides Direct Online Access to Employees and Citizens Expedites Annual Budget Preparation and Review Processes Enables more Efficient and Comprehensive Reporting Provides an Automated Change Management System

How is the TIP Funded?



MAJOR FUNDING SOURCES

Equipment Acquisition Funds (EAF)

The EAF portion of the TIP is short-term general obligation debt serviced by property tax revenue as part of the annual budget.

EAF involves the following 8 General Fund departments:

IT Consolidated EAF

Municipal Courts Admin (MCAD)

Houston Police (HPD)

Houston Fire (HFD)

Houston Emergency Center (HEC)

Public Works & Engineering (PWE)

Houston Public Library (HPL)

Health & Human Services (HHS)

Information Technology (IT)

Planning & Development (PD)

Enterprise, Special Revenue and Grant Funds



The Enterprise, Special Revenue and Grant portions of the TIP primarily use current revenue or prior year resources for technology investments from the departments / funds listed below:

Enterprise

Aviation (HAS)

PW&E (Public Utilities)

Convention & Entertainment Facilities (C&EF)

Special Revenue

PW&E (Building Inspection)
PW&E (Storm Water)
Municipal Courts Admin (Technology Fund)
Houston Emergency Center (HEC)

Grants

Houston Public Library (HPL)
Housing & Community Development (HCD)
Health & Human Services (HHS)

Executive Summary



Tier 1 – All Funding Sources



FUND	Through 2009	Estimated 2010	2011	2012	2013	2014	2015	2011-2015	Total
1800 IT Consolidated EQ Acquisition Fund (EAF)	27,765	21,083	27,835	22,937	14,635	13,178	11,810	90,395	139,243
2002 Health-Special Revenue Fund	-	0	0	190	0	0	0	190	190
2207 MCAD-Tech Special Revenue Fund	-	102	25	0	0	0	0	25	127
2301 PWE-Building Inspection Fund	-	-	1,607	695	118	50	50	2,520	2,520
5040 PWE-Other Government-Grant Funded	-	0	3,750	0	0	0	0	3,750	3,750
8001 HAS-Revenue Fund (Enterprise)	1,818	1,818	3,458	1,141	1,141	1,141	1,141	8,022	11,658
8012 HAS-AIF Capital Outlay Fund (Enterprise)	604	661	3,255	212	212	212	212	4,103	5,368
8300 PWE-W & S System Operating Fund	-	0	2,671	1,655	865	765	765	6,721	6,721
8305 PWE-Combined Util. Sys. Fund (Enterprise)	-	0	8,981	8,280	4,228	531	542	22,561	22,561
Radio-Anticipated Grants	-	0	1,764	20,754	7,409	0	0	29,927	29,927
Radio-Existing CIPs	3,324	2,742	2,800	0	25,135	0	0	27,935	34,001
Radio-Existing Grants	12,993	11,400	23,389	0	0	0	0	23,389	47,782
Radio-General Fund PIBs	-	0	0	0	9,623	0	0	9,623	9,623
GRANT TBD-HPD Port Authority-Mobile Data Project	-	0	3,620	0	0	0	0	3,620	3,620
Grand Total:	46,504	37,806	83,155	55,864	63,366	15,877	14,520	232,781	317,091

INFORMATION TECHNOLOGY DEPARTMENT Richard Lewis, CIO

CITY OF HOUSTON Technology Investment Plan

Tier 1 TIPs - EAF PROJECTS

Department	Through 2009	Estimated 2010	2011	2012	2013	2014	2015	2011-2015	Total
TIP - Fire									
99-10-12-0010 FIRE-Incident Command & Control System			200					200	200
99-10-12-0011 FIRE-E-Forms and Workflow System			100	50	25			175	175
99-10-12-0013 FIRE-Server Virtualization and Consolidation		110	50	50	50			150	260
99-11-12-0025 Desktop Refresh - FIRE	819	56	95	200	200	200	273	968	1,843
Total: TIP - Health and Human Services	819	166	445	300	275	200	273	1,493	2,478
99-11-38-0016 Desktop Refresh - HEALTH	437	223	142	156	76			374	1,034
Total:	437	223	142	156	76	0	0	374	1,034
TIP - Houston Emergency Center	437	223	172	130	70	Ū	Ū	374	1,034
99-07-15-0011 HEC-CAD Upgrade/Replacement	357		400	1,500	1,500	1,500	1,100	6,000	6,357
99-11-15-0033 Desktop Refresh - HEC	207	22	24	149	87	87	87	434	663
Total:	564	22	424	1,649	1,587	1,587	1,187	6,434	7,020
TIP - Library									
99-07-34-0001 Desktop Refresh - HPL	414	131	332	663	400	400	369	2,164	2,709
Total:	414	131	332	663	400	400	369	2164	2,709
TIP - Planning and Development									
99-07-70-0001 PLANNING-EGIS	1,250	162	400	430	500	500	500	2,330	3,742
99-11-70-0010 Desktop Refresh - Planning	34	7	4	11	24	11	7	57	98
Total:	1,284	169	404	441	524	511	507	2,387	3,840
TIP - Police									
99-07-10-0002 HPD-Mobile Data Strategy	201	200	1,500	6,000	200	200	205	7,500	7,500
99-07-10-0003 HPD-Neighborhood Protection Case (NPC) Mgmt System	226 7,258	200 4,882	725 2,250	200 3,500	200 3,500	200 3,500	225 2,000	1,550 14,750	1,976
99-07-10-0010 HPD-Records Mgmt System (RMS) 99-11-10-0050 Desktop Refresh - HPD	1,684	396	379	1,434	1,200	1,200	1,200	5,413	26,890 7,493
Total:	9,168	5,478	4,854	11,134	4,900	4,900	3,425	29,213	43,859
TIP - Public Works and Engineering	7,100	3,476	4,034	11,134	4,700	4,700	3,423	27,213	43,037
20-11-20-3000 Desktop / Laptop Refresh - PWE (ENT, SR, EAF)	157	18	74	140	140	140	140	634	809
Total:	157	18	74	140	140	140	140	634	809
TIP - Municipal Courts Administration									
99-10-16-0016 MCAD-ICMS HW Replacement/Refresh		225	100	65				165	390
99-10-16-0017 MCAD-CSMART - Municipal Courts Management System	250	6,560	3,000	3,000	1,250			7,250	14,060
99-10-16-0026 MCAD-Self Service Payment Kiosks			110	100	100	40		350	350
99-11-16-0030 MCAD-Desktop Refresh	199	61	62	150	150	150	165	677	937
99-11-16-0032 MCAD-Collection Module			155					155	155
Total:	449	6,846	3,427	3,315	1,500	190	165	8,597	15,892
TIP - Information Technology	4.000	222	500	4 000	4 000	1 000		2 22 4	5.004
99-07-68-0001 IT-INFRA-UCS PBX	1,200	800	500	1,000	1,000	1,000	494	3,994	5,994
99-07-68-0002 IT-INFRA-Active Directory& Exchange Migration	6,962	3,166	1,426	4 000	4 000	1 000	4 000	1,426	11,554
99-07-68-0003 IT-Server Storage/SAN Asset Replacement 99-07-68-1001 IT-APPS-Call Center (3-1-1 Refresh)	937	475 520	1,150 1,000	1,000 250	1,000 250	1,000	1,000	5,150 1,500	6,562
99-07-08-1001 11-APPS-Call Center (S-1-1 Refresh) 99-09-6899 IT-INFRA-Network Replacement	1,633 300	625	1,000	1,000	1,000	1,500	1,500	6,000	3,653 6,925
99-09-65-0003 IT-APPS-ARA-1-Stop Permitting	697	023	500	300	200	1,500	1,500	1,000	1,697
99-09-68-1009 ITD-ERP-SAP Business Intelligence	1,143	1,664	915	300	200			915	3,722
99-10-68-2016 IT-INFRA-Data Center & Server Transformation	1,173	342	1,000	1,000	1,000	1,000	2,000	6,000	6,342
99-11-65-0010 Automated Time & Attendance System (Kronos)		312	8,354	.,000	.,000	.,030	2,300	8.354	8.354
99-11-68-1100 IT-INFRA-Desktop Refresh-ITD & NON-CTO Depts	1,601	438	1,888	589	783	750	750	4,760	6,799
Total:	14,473	8,030	17,733	5,139	5,233	5,250	5,744	39,099	61,602
Grand Total:	27,765	21,083	27,835	22,937	14,635	13,178	11,810	90,395	139,243
	·							·	
Annual Citywide Standard IT A/R Refresh ONLY Total:	9,979	4,107	7,200	8,357	7,860	7,938	7,085	38,440	52,526

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Technology Investment Plan

MAJOR ONGOING CITYWIDE TIP PROJECTS

Case Management System (CSMART)

Design and implement a new custom CMS in-house to manage 1.2m new cases processed annually by Houston Municipal Courts based on a Service Oriented Architecture and Microsoft development tools. (\$15-20m)

Benefits:

- Automate labor intensive work
- · Reduce citizen and officer time spent in court
- Increase Revenues
- Control long-term system maintenance costs
- Decrease system downtime

Automated Time and Attendance System (ATAS)

The ATAS will allow the City to centralize and track the attendance and pay for all City employees. It will fully automated time and attendance and includes the software licensing, system hosting, application development and implementation services. Deliverables include Multiple T&A devices, Application Hosting, SAP Interface, Education/Training and ongoing maintenance (\$13m) ROI = \$30.3m over 5 years

Records Management System (RMS) and MDS "Office in Vehicle"

Decommission the mainframe/data center and move to a client server environment. Deploy next generation technologies in vehicles providing electronic transmission of documents, i.e. reports, citations, etc., to increase productivity, efficiency and improve public safety to citizens.

The Mobile Data Strategy (MDS) leverages commercial air card technologies and the City's evolving broadband wireless capabilities to provide significantly more data to field officers. (\$45m)

Radio Communications System

The existing Radio systems have reached the end of their useful life and must be replaced. This project will replace existing radio systems with a reliable, effective and efficient "state of the art" system to improve Citywide communications, provide for interagency operability between City, County, Regional, State and Federal agencies. (\$120m)

City of Houston - Information Technology Department ADOPTED FY11-15 Technology Investment Plan (TIP) Tier 1 - IT Consolidated EAF (1800) Only By Dept By Project or A/R

9-9-1-1-2-001 File File Forms and MacControl System 9-10-1-2-001 File Febres with Virtualization and Consolidation 9-10-1-2-002 File Febres with Virtualization and Consolidation and C	Department	Through 2009	Estimated 2010	2011	2012	2013	2014	2015	2011-2015	Total
19-10-10-10-11 File F. F. Grown and Windflow System 19-10-10-10-11 File F. F. Grown and Windflow System 19-10-10-10-11 File F. F. Grown and Windflow System 19-10-10-10-11 File F. Grown System 19-10-10-11 File F. Grown System 19-10-11 File F. Grown System 19-10-10-11 File F. Grown System 19-10-11 File F. Grown System 19-10-11 File F. Grown System 19-10-10-11 File F. Grown System 19-10-10-11 File F. Grown System 19-10-11 File F. Grown	TIP - Fire									
10 50 50 50 50 50 50 50	99-10-12-0010 FIRE-Incident Command & Control System									200
19-11-12-02-05 lesstop Referein - FIRE 16-15 18-19 16-15 18-19 16-15 18-19 18-15 18-15 1	99-10-12-0011 FIRE-E-Forms and Workflow System			100	50	25			175	175
Total: 1819 166 445 300 275 200 273 1,493 2,478	99-10-12-0013 FIRE-Server Virtualization and Consolidation		110	50	50	50			150	260
Part Hearth and Human Services	99-11-12-0025 Desktop Refresh - FIRE		56							
19-11-38-0016 Desktop Refresh - HEALTH 437 223 142 156 76 0 0 374 1,038 19- Houston Emergency Center 357 22 24 149 87 87 87 87 434 663 19- 19- 19- 19- 19- 19- 19- 19- 19- 19-		819	166	445	300	275	200	273	1,493	2,478
P - Houston Emergency Center Fotal: 437 223 142 156 76 0 0 0 374 1,034	TIP - Health and Human Services									
P - Public Police										
9.07.15.0011 HEC-CAD Upgrade/Replacement 357		437	223	142	156	76	0	0	374	1,034
19-11-15-0033										
Total: T										
P- Library 907-34-0001 Desktop Refresh . HPL Total:										
19-07-34-0001 Desktop Refresh - IPE		564	22	424	1,649	1,587	1,587	1,187	6,434	7,020
P - Planning and Development Formation										
P- Planning and Development										
1,000 1,00		414	131	332	663	400	400	369	2164	2,709
99.11-70.0010 Desktop Refresh - Planning 34		4.050	4/0	400	400	F00	500	500	0.000	0.710
Pi - Polico										
Poblic			•	•				•		
19-07-10-0002 HPD-Mobile Data Strategy 1-500 6,000 200 200 200 205 1,550 1,976 1,907-10-1001 HPD-Records Mgmt System (RMS) 7,258 4,882 2,280 3,500 3,500 3,500 2,000 14,750 2,889 1,907-10-10010 HPD-Records Mgmt System (RMS) 7,258 4,882 2,280 3,500 3,500 3,500 2,000 14,750 2,889 1,907-10-10050 Desktop Refresh - HPD 1,684 3,966 3,79 1,434 1,200 1,200 1,200 5,413 7,493 1,111		1,284	109	404	441	524	511	507	2,387	3,840
19-07-10-0003 IPD-Reighborhood Profection Case (NPC) Mgmt System (RMS) 7.258 4.882 2.250 3.500 3.500 3.500 2.000 14.750 26.899 19-11-10-0050 Desktop Refresh - IPD 1.682 4.894 396 379 1.434 1.200 1.200 1.200 1.200 5.413 7.493 7.4				1 500	/ 000				7 500	7.500
19-07-10-0010 HPD-Records Mgmt System (RMS) 7,258 4,882 2,250 3,500 3,500 3,500 2,000 14,750 26,890 19-11-10-0050 Desktop Refresh - HPD 1,684 396 379 1,434 1,200 1,200 1,200 5,413 7,493 19-11-10-10-10-10-10-10-10-10-10-10-10-10-		224	200			200	200	225		
1.684 396 379 1.434 1.200 1.200 1.200 5.413 7.493 7.494 7.490										
Total: 9,168 5,478 4,854 11,134 4,900 4,900 3,425 29,213 43,859 11,120 1			·		·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
The Public Works and Engineering 157 18 74 140 140 140 140 140 634 809 150 150 150 157 18 74 140 140 140 140 140 634 809 150							•			
10-11-20-3000 Desktop / Laptop Refresh - PWE (ENT, SR, EAF) 157 18 74 140 140 140 140 140 634 809 140 140 140 140 140 634 809 140 140 140 140 140 140 140 634 809 140 140 140 140 140 140 140 634 809 140 140 140 140 140 140 140 140 140 140 140 809 809 140 140 140 140 140 140 140 140 140 140 140 809 809 140 14		7,100	5,476	4,654	11,134	4,700	4,700	3,423	27,213	43,037
The Municipal Courts Administration 19-10-16-0016 MCAD-ICMS HW Replacement/Refresh 19-10-16-0016 MCAD-ICMS HW Replacement/Refresh 19-10-16-0017 MCAD-CSMART - Municipal Courts Management System 19-10-16-0017 MCAD-CSMART - Municipal Courts Management System 19-10-16-0018 MCAD-SWART - Municipal Courts Management System 19-10-16-0018 MCAD-SWART - Municipal Courts Management System 19-10-16-0018 MCAD-SWART - Municipal Courts Management System 19-10-16-0028 MCAD-SWART - Municipal Courts Management System 19-10-16-0030 MCAD-SWART - Municipal Courts Management Managemen		157	10	7.1	140	140	140	140	631	900
P-Nunicipal Courts Administration										
19-10-16-0016 MCAD-ICMS HW Replacement/Refresh 225 100 65 165 390 19-10-16-0017 MCAD-CSMART - Municipal Courts Management System 250 6,560 3,000 3,000 1,250 7,250 14,060 19-10-16-0026 MCAD-Self Service Payment Klosks 110 100 100 40 350 350 19-11-16-0030 MCAD-Desktop Refresh 199 61 62 150 150 150 150 165 677 937 19-11-16-0031 MCAD-Collection Module 155 155 155 150 150 150 165 8,597 15,892 19-11-16-0031 MCAD-Collection Module 1-10 1-10 1-10 1-10 1-10 1-10 1-10 19-11-16-0032 MCAD-Desktop Refresh 199 61 62 150 150 150 150 165 677 937 19-11-16-0032 MCAD-Collection Module 1-10 1-10 1-10 1-10 1-10 1-10 1-10 19-11-16-0032 MCAD-Collection Module 1-10 1-10 1-10 1-10 1-10 1-10 1-10 1-10 19-11-16-0032 MCAD-Desktop Refresh 1-10		137		/-	140	140	140	140	034	007
19-10-16-0017 MCAD-CSMART - Municipal Courts Management System 250 6,560 3,000 3,000 1,250 1,250 7,250 14,060 19-10-16-0026 MCAD-Self Service Payment Klosks 199 61 62 150 150 150 150 155 677 937 19-11-16-0030 MCAD-Desktop Refresh 199 61 62 150 150 150 150 155			225	100	65				165	390
19-10-16-0026 MCADSelf Service Payment Klosks 110 100 100 40 350 350 350 99-11-16-0030 MCADDesktop Refresh 199 61 62 150 150 150 150 165 677 937 99-11-16-0032 MCADCollection Module 155		250				1 250				
19-11-16-0030 MCAD-Desktop Refresh 199 61 62 150 150 150 150 165 677 937 155		200	0,000				40			
150 150		199	61					165		
Total: 449 6,846 3,427 3,315 1,500 190 165 8,597 15,892 TIP- Information Technology 19-07-68-0001 IT-INFRA-UCS PBX 1,200 800 500 1,000 1,000 1,000 494 3,994 5,994 19-07-68-0002 IT-INFRA-Active Directory& Exchange Migration 6,962 3,166 1,426						,,,,				
P- Information Technology P- O-76-8-0001 IT-INFRA-UCS PBX 1,200 800 500 1,000 1,000 1,000 494 3,994 5,994 6,907-68-0002 IT-INFRA-Active Directory& Exchange Migration 6,962 3,166 1,426 1,		449	6.846		3,315	1,500	190	165		
1,200 800 500 1,000 1,000 1,000 494 3,994 5,994 1,200 800 500 1,000 1,000 1,000 494 3,994 5,994 1,206 1,426	TIP - Information Technology		,	•	,	,				,
1,426 11,554 12,554 13,156 13,166 13,426 14	99-07-68-0001 IT-INFRA-UCS PBX	1,200	800	500	1,000	1,000	1,000	494	3,994	5,994
17-68-0003 17-Server Storage/SAN Asset Replacement 937 475 1,150 1,000 1,000 1,000 1,000 1,000 5,150 6,562	99-07-68-0002 IT-INFRA-Active Directory& Exchange Migration									
99-07-68-1001 IT-APPS-Call Center (3-1-1 Refresh) 1,633 520 1,000 250 250 250 1,500 1,500 3,653 (99-09-09-6899 IT-INFRA-Network Replacement 300 625 1,000 1,000 1,000 1,500 1,500 6,000 6,925 (99-09-65-0003 IT-APPS-ARA-1-Stop Permitting 697 500 300 200 1,000 1,697 500 300 200 1,000 1,697 99-09-68-1009 ITD-ERP-SAP Business Intelligence 1,143 1,664 915 99-10-68-2016 IT-INFRA-Data Center & Server Transformation 342 1,000 1,000 1,000 1,000 2,000 6,000 6,342 (19-11-65-0010 Automated Time & Attendance System (Kronos) 8,354 8,354 (19-11-68-1100 IT-INFRA-Desktop Refresh-ITD & NON-CTO Depts 1,601 438 1,888 589 783 750 750 4,760 6,799 Total: 14,473 8,030 17,733 5,139 5,233 5,250 5,744 39,099 61,602 (19-11-68-1100 IT-INFRA-Desktop Refresh-ITD & Carnot Total: 27,765 21,083 27,835 22,937 14,635 13,178 11,810 90,395 139,243	99-07-68-0003 IT-Server Storage/SAN Asset Replacement				1,000	1,000	1,000	1,000		
9-09-09-6899 IT-INFRA-Network Replacement 300 625 1,000 1,000 1,000 1,500 1,500 6,000 6,925 19-09-65-0003 IT-APPS-ARA-1-Stop Permitting 697 500 300 200 1,000 1,000 1,697 91-09-68-1009 ITD-ERP-SAP Business Intelligence 1,143 1,664 915 915 3,722 19-10-68-2016 IT-INFRA-Data Center & Server Transformation 342 1,000 1,000 1,000 1,000 2,000 6,000 6,342 19-11-65-0010 Automated Time & Attendance System (Kronos) 8,354 8,354 19-11-68-1100 IT-INFRA-Desktop Refresh-ITD & NON-CTO Depts 1,601 438 1,888 589 783 750 750 4,760 6,799 Total: 14,473 8,030 17,733 5,139 5,233 5,250 5,744 39,099 61,602 139,243	99-07-68-1001 IT-APPS-Call Center (3-1-1 Refresh)									
1,000 1,697 1,000 1,697 1,000 1,697 1,000 1,097 1,000 1,097 1,000 1,097 1,000 1,00	99-09-09-6899 IT-INFRA-Network Replacement				1,000	1,000	1,500	1,500		
1,143 1,664 915 915 3,722 910-90-68-1009 1TD-ERP-SAP Business Intelligence 1,143 1,664 915 915 3,722 910-90-68-2016 1T-INFRA-Data Center & Server Transformation 342 1,000 1,000 1,000 1,000 2,000 6,000 6,342 91-90-90-68-1000 8,354 8,354 8,354 91-90-90-68-1000 1,0	99-09-65-0003 IT-APPS-ARA-1-Stop Permitting	697		500		200				
19-11-65-0010 Automated Time & Attendance System (Kronos) 8,354 8,354 8,354 19-11-68-1100 17-INFRA-Desktop Refresh-ITD & NON-CTO Depts 1,601 438 1,888 589 783 750 750 4,760 6,799 Total: 14,473 8,030 17,733 5,139 5,233 5,250 5,744 39,099 61,602 Grand Total: 27,765 21,083 27,835 22,937 14,635 13,178 11,810 90,395 139,243	99-09-68-1009 ITD-ERP-SAP Business Intelligence	1,143	1,664	915					915	3,722
9-11-68-1100 IT-INFRA-Desktop Refresh-ITD & NON-CTO Depts 1,601 438 1,888 589 783 750 750 4,760 6,799 Total: 14,473 8,030 17,733 5,139 5,233 5,250 5,744 39,099 61,602 Grand Total: 27,765 21,083 27,835 22,937 14,635 13,178 11,810 90,395 139,243	99-10-68-2016 IT-INFRA-Data Center & Server Transformation		342	1,000	1,000	1,000	1,000	2,000	6,000	6,342
Total: 14,473 8,030 17,733 5,139 5,233 5,250 5,744 39,099 61,602 Grand Total: 27,765 21,083 27,835 22,937 14,635 13,178 11,810 90,395 139,243	99-11-65-0010 Automated Time & Attendance System (Kronos)			8,354					8,354	8,354
Grand Total: 27,765 21,083 27,835 22,937 14,635 13,178 11,810 90,395 139,243	99-11-68-1100 IT-INFRA-Desktop Refresh-ITD & NON-CTO Depts	1,601	438	1,888	589	783	750	750	4,760	6,799
	Total:	14,473	8,030	17,733	5,139	5,233	5,250	5,744	39,099	61,602
Annual Citywide Standard IT A/R Refresh ONLY Total: 9,979 4,107 7,200 8,357 7,860 7,938 7,085 38,440 52,526	Grand Total:	27,765	21,083	27,835	22,937	14,635	13,178	11,810	90,395	139,243
	Annual Citywide Standard IT A/R Refresh ONLY Total:	9,979	4,107	7,200	8,357	7,860	7,938	7,085	38,440	52,526
								·		
Annual Citywide Standard IT DESKTOP REFRESH ONLY Total: 5,552 1,352 3,000 3,492 3,060 2,938 2,991 15,481 22,385	•	5,552	1,352	3,000	3,492	3,060	2,938	2,991	15,481	22,385

(Includes Annual MS ELA \$1.5m in ITD)

City of Houston - Information Technology Department ADOPTED FY11-15 Technology Investment Plan (TIP)

Tier 1 - IT Consolidated EAF (1800) Only By Dept By CITYIDE A/R DESKTOP REFRESH ONLY

Department	Through 2009	Estimated 2010	2011	2012	2013	2014	2015	2011-2015	Total
TIP - Fire									
99-11-12-0025 Desktop Refresh - FIRE	819	56	95	200	200	200	273	968	1,843
Total:	819	56	95	200	200	200	273	968	1,843
TIP - Health and Human Services									
99-11-38-0016 Desktop Refresh - HEALTH	437	223	142	156	76			374	1,034
Total:	437	223	142	156	76	0	0	374	1,034
TIP - Houston Emergency Center									
99-11-15-0033 Desktop Refresh - HEC	207	22	24	149	87	87	87	434	663
Total:	207	22	24	149	87	87	87	434	663
TIP - Library									
99-07-34-0001 Desktop Refresh - HPL	414	131	332	663	400	400	369	2,164	2,709
Total:	414	131	332	663	400	400	369	2164	2,709
TIP - Planning and Development									
99-11-70-0010 Desktop Refresh - Planning	34	7	4	11	24	11	7	57	98
Total:	34	7	4	11	24	11	7	57	98
TIP - Police									
99-11-10-0050 Desktop Refresh - HPD	1,684	396	379	1,434	1,200	1,200	1,200	5,413	7,493
Total:	1,684	396	379	1,434	1,200	1,200	1,200	5,413	7,493
TIP - Public Works and Engineering									
20-11-20-3000 Desktop / Laptop Refresh - PWE (ENT, SR, EAF)	157	18	74	140	140	140	140	634	809
Total:	157	18	74	140	140	140	140	634	809
TIP - Municipal Courts Administration									
99-11-16-0030 MCAD-Desktop Refresh	199	61	62	150	150	150	165	677	937
Total:	199	61	62	150	150	150	165	677	937
TIP - Information Technology *									
99-11-68-1100 IT-INFRA-Desktop Refresh-ITD & NON-CTO Depts	1,601	438	1,888	589	783	750	750	4,760	6,799
Total:	1,601	438	1,888	589	783	750	750	4,760	6,799
Grand Total:	5,552	1,352	3,000	3,492	3,060	2,938	2,991	15,481	22,385

^{* (}Includes Annual MS ELA \$1.5m in ITD)

CITY OF HOUSTON - TIP - Aviation

Project:	FLIGHT INFORMATION DISPLAY SYSTEM	(FIDS)		Category:	As	sset Replacen	nent (A/R)	Tier 1	((ADOPTED)
				Project Mana	ger: U	f Lueders		WBS #:		
				Revision Date	e: 5/	19/2010		TIP #: 28-0	07-28-0001	
Description:	The Houston Airport System is embarking on update of the Flight Information Display Systemare operating 24/7/365. It is not feasible to ke	m. The FIDS F	'C's		Operati	onal and Mai	ntenance Co	osts: (\$ Thou	usands)	
	their warranty expiration period. There are ap in existence today and about 1,000 monitors abilities. The capabilities of the systems and are increasing exponentially. This leads to a requestimation of requirements for the next 5 ye system will be low end server class models. The channel video cards and operate on a server	proximately 35 of varying sizes software driving ather precarious areas. PC's driving hey will require	O PC's and them as ng the	Personnel Supplies		2011	2012	2013	2014	<u>2015</u>
Benefits/ROI:	HAS provides public information to clients, cu with the Flight Information Display System. A	stomers and st well working sy	/stem	Svcs. & Chg Capital Outla	ay					
	is the first and last thing a visitor to Houston s	=	tant to	Property Mg	mt.					
	have the equipment working properly at all tin	nes.		Total						
				FTEs	=:	<u></u>			=>//4	
	Project Allocation	Thru	Est			Planned App			FY11-	Project
		2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation		600	600	2,425	243	243	243	243	3,397	4,597
Total Allocation	ns	600	600	2,425	243	243	243	243	3,397	4,597
	Source of Funds	1		1		'		-	-	
8001 HAS-Reve	enue Fund (Enterprise)	600	600	2,425	243	243	243	243	3,397	4,597
Total Funds										

CITY OF HOUSTON - TIP - Aviation

Project:	SERVER GENERAL SERVER ATTRITION REPLACEMENT			Category:	A	sset Replacer	ment (A/R)	Tier 1	((ADOPTED)	
	GENERAL SERVER ATTRITION REPLAC	EMENT		Project Mana	ager: M	ark Zeringue		WBS #:			
				Revision Dat	te: 5/	19/2010		TIP #: 28-	07-28-0002		
Description:	Replace oldest servers following a 3-4 year	plan.			Operati	onal and Ma	intenance Costs: (\$ Thousands)				
						2011	2012	2013	2014	<u>2015</u>	
				Personnel							
				Supplies							
Benefits/ROI:	Current hardware provides the best platform	n to maintain higl	h	Svcs. & Cho	gs.						
	availability and stability.			Capital Outl	ay						
				Property Mg	gmt.						
				Total							
				FTEs							
	Project Allocation	Thru	Est		Fiscal Year	Planned App	propriations		FY11-	Project	
	1 Toject Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total	
Assessment											
Design											
Implementation	1	60	117	134	134	134	134	134	670	847	
Total Allocation	ons	60	117	134	134	134	134	134	670	847	
	Source of Funds										
8001 HAS-Rev	enue Fund (Enterprise)	60	60	88	88	88	88	88	440	560	
8012 HAS-A	IF Capital Outlay Fund (Enterprise)		57	46	46	46	46	46	230	287	
Total Funds		60	117	134	134	134	134	134	670	847	

CITY OF HOUSTON - TIP - Aviation

Project:	MS-EA			Category:	Α	sset Replacer	ment (A/R)	Tier 1	(ADOPTED)
	MICROSOFT ENTERPRISE AGREEMENT			Project Mana	ager: M	att Hyde		WBS #:		
				Revision Dat	: e : 5/	19/2010		TIP #: 28-	07-28-0003	
Description:	MS-EA software assurance planned at 10% a	nnually.			Operati	onal and Mai	intenance C	osts: (\$ Tho	usands)	
						<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>
				Personnel						
				Supplies						
Benefits/ROI:	Maintaining MS-EA will reduce software licens	sing costs and		Svcs. & Cho	js.					
	potential licensing risks due to non-compliance	э.		Capital Outla	ay			:		
				Property Mg	ımt.					
				Total						
				FTEs						
	Drainet Allegation	Thru	Est		Fiscal Year	Planned App	ropriations	•	FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	۱	470	470	470	335	335	335	335	1,810	2,750
Total Allocation	ons	470	470	470	335	335	335	335	1,810	2,750
	Source of Funds									
8001 HAS-Rev	venue Fund (Enterprise)	470	470	470	335	335	335	335	1,810	2,750
Total Funds		470	470	470	335	335	335	335	1,810	2,750
i otai i uiius		770	710	770	000	000	555	333	1,010	2,730

CITY OF HOUSTON - TIP - Aviation

			-			nent (A/R)	Tier 1	(ADOPTED)
VM WARE INFRASTRUCTURE (DUPLICATE	DATA CENTI	ER)	Project Mana	nger: M	ark Zeringue		WBS #:		
			Revision Date: 5/19/2010				TIP #: 28-0	07-28-0005	
Create a clustered fault-tolerant server environ	ment based o	n	Operational and Mainte				osts: (\$ Thou	usands)	
VMWARE which is duplicated to another Data	Center for dis	aster			<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
recovery. Deploy multiple high performance se	ervers with Sto	rage	Personnel						
Area Network (SAN) running VM Ware's Infras	structure 3.		Supplies						
Reduce hardware platforms. VMs run across r	nultiple server	S	Svcs. & Chg	js.					
pooling hardware resources to increase perfor	mance. Quick	and	Capital Outla	ay					
easy to expand new hardware, or add new VM	ls when neede	ed. High	Property Mg	ımt.					
availability and easy to upgrade hardware.			Total						
			FTEs						
Dunings Allegation	Thru	Est		Fiscal Year	Planned App	ropriations	•	FY11-	Project
Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
ı	100	100	100	100	100	100	100	500	700
ons	100	100	100	100	100	100	100	500	700
Source of Funds									
enue Fund (Enterprise)	100	100	100	100	100	100	100	500	700
	100	100	100	100	100	100	100	500	700
•	Create a clustered fault-tolerant server enviror VMWARE which is duplicated to another Data recovery. Deploy multiple high performance set Area Network (SAN) running VM Ware's Infrast Reduce hardware platforms. VMs run across repooling hardware resources to increase perfort easy to expand new hardware, or add new VM availability and easy to upgrade hardware. Project Allocation Source of Funds	Create a clustered fault-tolerant server environment based of VMWARE which is duplicated to another Data Center for discrecovery. Deploy multiple high performance servers with Stock Area Network (SAN) running VM Ware's Infrastructure 3. Reduce hardware platforms. VMs run across multiple server pooling hardware resources to increase performance. Quick easy to expand new hardware, or add new VMs when needed availability and easy to upgrade hardware. Project Allocation Thru 2009 Thru 2009 Source of Funds enue Fund (Enterprise)	Create a clustered fault-tolerant server environment based on VMWARE which is duplicated to another Data Center for disaster recovery. Deploy multiple high performance servers with Storage Area Network (SAN) running VM Ware's Infrastructure 3. Reduce hardware platforms. VMs run across multiple servers pooling hardware resources to increase performance. Quick and easy to expand new hardware, or add new VMs when needed. High availability and easy to upgrade hardware. Project Allocation Thru Est 2009 2010 Thru Source of Funds 100 100 100 100	VM WARE INFRASTRUCTURE (DUPLICATE DATA CENTER) Project Mana-Revision Data Create a clustered fault-tolerant server environment based on VMWARE which is duplicated to another Data Center for disaster recovery. Deploy multiple high performance servers with Storage Area Network (SAN) running VM Ware's Infrastructure 3. Reduce hardware platforms. VMs run across multiple servers pooling hardware resources to increase performance. Quick and easy to expand new hardware, or add new VMs when needed. High availability and easy to upgrade hardware. Personnel Supplies Svcs. & Chg Capital Outle Property Mg Total FTES Project Allocation Thru Est 2009 2010 Total FTES Source of Funds 100 100 100 100 Source of Funds Project Mana-Revision Data Revision Data	VM WARE INFRASTRUCTURE (DUPLICATE DATA CENTER) Project Manager: M Revision Date: 5/ Create a clustered fault-tolerant server environment based on VMWARE which is duplicated to another Data Center for disaster recovery. Deploy multiple high performance servers with Storage Area Network (SAN) running VM Ware's Infrastructure 3. Reduce hardware platforms. VMs run across multiple servers pooling hardware resources to increase performance. Quick and easy to expand new hardware, or add new VMs when needed. High availability and easy to upgrade hardware. Thru availability and easy to upgrade hardware. Thru 2009 2010 Thru 2011 FTES Fiscal Year 2009 2010 Source of Funds Project Manager: M Revision Date: 5/ Operati Operati Personnel Supplies Svcs. & Chgs. Capital Outlay Property Mgmt. Total FTES Fiscal Year 2011 2012 100 100 100 100 100 100 100	VM WARE INFRASTRUCTURE (DUPLICATE DATA CENTER) Project Manager: Mark Zeringue Revision Date: 5/19/2010 Create a clustered fault-tolerant server environment based on VMWARE which is duplicated to another Data Center for disaster recovery. Deploy multiple high performance servers with Storage Area Network (SAN) running VM Ware's Infrastructure 3. Reduce hardware platforms. VMs run across multiple servers pooling hardware resources to increase performance. Quick and easy to expand new hardware, or add new VMs when needed. High availability and easy to upgrade hardware. Thru 2009 2010 Thru 2011 FTES Project Allocation Thru 2009 2010 Thru 2011 FIES Fiscal Year Planned App 2011 2012 2013 Incompany Planned App 2011 Source of Funds Project Manager: Mark Zeringue Revision Date: 5/19/2010 Deprational and Mai Deprional Amage 2011 Personnel Supplies Svcs. & Chgs. Capital Outlay Property Mgmt. Total FTES Fiscal Year Planned App 2011 2012 2013 Incompany Planned App 2010 Thru 2012 Thru 2013 FOULT APP 2015 FOULT APP 2016 FOULT APP 2016 FOULT APP 2017 FOULT APP 2016 FOULT APP 2017 FOULT APP 2017 FOULT APP 2018 FOULT APP 2019 FOULT APP 2011 Personnel Supplies Supplies Svcs. & Chgs. Capital Outlay Property Mgmt. Total FOULT APP 2011 FOULT APP 2012 FOULT APP 2011 FOULT APP 2015 FOULT APP 2016 FOULT APP 2017 FOULT APP 2017 FOULT APP 2017 FOULT APP 2018 FOULT APP 2019 FOULT APP 2011 FOUL	VM WARE INFRASTRUCTURE (DUPLICATE DATA CENTER) Project Manager: Mark Zeringue Revision Date: 5/19/2010 Create a clustered fault-tolerant server environment based on VMWARE which is duplicated to another Data Center for disaster recovery. Deploy multiple high performance servers with Storage Area Network (SAN) running VM Ware's Infrastructure 3. Reduce hardware platforms. VMs run across multiple servers pooling hardware resources to increase performance. Quick and easy to expand new hardware, or add new VMs when needed. High availability and easy to upgrade hardware. Thru Est Fiscal Year Planned Appropriations 2011 Personnel Supplies Svcs. & Chgs. Capital Outlay Property Mgmt. Total FTES Project Allocation Thru Est Fiscal Year Planned Appropriations 2011 2012 2013 2014 Thru Double Source of Funds Project Manager: Mark Zeringue Revision Date: 5/19/2010 Operational and Maintenance Counce Coun	VM WARE INFRASTRUCTURE (DUPLICATE DATA CENTER)	VM WARE INFRASTRUCTURE (DUPLICATE DATA CENTER) Project Manager: Mark Zeringue Revision Date: 5/19/2010 TIP #: 28-07-28-0005

CITY OF HOUSTON - TIP - Aviation

Project:	CISCO			Category:	А	sset Replacer	ment (A/R)	Tier 1	((ADOPTED)
	CISCO 5-YEAR SPENDING FORECAST			Project Mana	ager: M	att Hyde		WBS #:		
				Revision Dat	: e : 5/	19/2010		TIP #: 28-	07-28-0007	
Description:	Number of core devices remains constant. Nur	mber of edge			Operati	onal and Ma	intenance C	osts: (\$ Tho	usands)	
	devices grows at 5% annually. Includes Smarti	net under the				<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
	Enterprise Funds section. Replace core netwo	rk devices at I	MDF	Personnel						
	room throughout HAS campuses.			Supplies						
Benefits/ROI:	Maintain current equipment with Smartnet main	ntenance/sup	port	Svcs. & Cho	js.					
	reduces downtime risks and loss of productivity	y due to syste	m	Capital Outla	ay		i 			
	unavailability.			Property Mg	ımt.					
				Total						
				FTEs						
	Project Allocation	Thru	Est		Fiscal Year	Planned App	propriations	•	FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	ı	897	897	206	206	206	206	206	1,030	2,824
Total Allocatio	ons	897	897	206	206	206	206	206	1,030	2,824
	Source of Funds									
8001 HAS-Rev	enue Fund (Enterprise)	293	293	40	40	40	40	40	200	786
8012 HAS-A	IF Capital Outlay Fund (Enterprise)	604	604	166	166	166	166	166	830	2,038
Total Funds		897	897	206	206	206	206	206	1,030	2,824

CITY OF HOUSTON - TIP - Aviation

Project:	DESKTOPS					Asset Replacement (A/R)		Tier 1	(ADOPTED)
	DESKTOP/LAPTOP REPLACEMENT/ROTAT	ION FORECA	ST	Project Mana	ager: N	latt Hyde		WBS #:		
				Revision Dat	t e : 5	/19/2010		TIP #: 28-0	07-28-0008	
Description:	We currently have 1,000 desktops and 75 laptor	ops, with a gro	owth		Operat	ional and Ma	ntenance C	osts: (\$ Tho	usands)	
	rate of 5% annually Our replacement schedule	is based on a	a 4-year			2011	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>
	rotation			Personnel						
				Supplies						
Benefits/ROI:	To ensure that all employees who use compute	ng resources	have	Svcs. & Cho	js.					
	access to a computer of sufficient capability to	support basic	;	Capital Outl	ay					
	computing needs in fulfillment of their work res	ponsibilities.		Property Mo	ımt.					
				Total						
				FTEs						
	Drainet Allegation	Thru	Est		Fiscal Year	Planned App	ropriations		FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	1	295	295	335	335	335	335	335	1,675	2,265
Total Allocation	ons	295	295	335	335	335	335	335	1,675	2,265
	Source of Funds									
8001 HAS-Rev	enue Fund (Enterprise)	295	295	335	335	335	335	335	1,675	2,265
Total Funds		295	295	335	335	335	335	335	1,675	2,265

CITY OF HOUSTON - TIP - Fire

Project:	FIRE-Incident Command & Control System			Category:		Project (P)		Tier 1	(.	ADOPTED)
				Project Manag	ger:	Patrick Plumme	er	WBS #: TBD	1	
				Revision Date):	1/14/2010		TIP #: 99-1	0-12-0010	
Description:	Drastically improve incident management; as	ssist command	ers in		Oper	ational and Ma	intenance Co	sts: (\$ Thou	sands)	
	the field with tracking of personnel and asse	ts to more effec	ctively			2011	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>
	saves lives and property.			Personnel						
				Supplies						
Benefits/ROI:	An automated system allows for decreased	response times	to	Svcs. & Chgs	S.		25	25	25	25
	control a fire and reduces the life-threatening	g risks to HFD		Capital Outla	У					
	personnel through better communication and	d tracking. (Ser	vice	Property Mgr	nt.					
	Improvement, Risk Avoidance)			Total			25	25	25	25
				FTEs						
	Project Allocation	Thru	Est	F	iscal Ye	ar Planned Ap	propriations		FY11-	Project
	Project Anocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	1			200					200	200
Total Allocation	ons			200					200	200
	Source of Funds	·		·						
1800 IT Consol	lidated EQ Acquisition Fund (EAF)			200					200	200
Total Funds				200					200	200

CITY OF HOUSTON - TIP - Fire

Project:	FIRE-E-Forms and Workflow System			Category:	F	Project (P)		Tier 1	(ADOPTED)
				Project Mana	ger:	Patrick Plumme	er	WBS #: TB	D	
				Revision Date): ′	/14/2010		TIP #: 99	-10-12-0011	
Description:	HFD has over 130 manual forms and work	flows across Em	ergency		Opera	ional and Mai	intenance C	Costs: (\$ Tho	usands)	
	Ops, HR, F&A that are not electronic, can	not be queried/an	alyzed,			2011	2012	2013	2014	2015
	and require thousands of man-hours each	year to manage.	Moving	Personnel						
	to a workflow system will streamline this p	rocess, increasing	g							
	productivity, improving business information	on		Supplies						
Benefits/ROI:	The system will speed up business proces	ses, reduce error	rs, and	Svcs. & Chg	S.					
	improve executive's ability to track trends to	or better manage	ement. It	Capital Outla	ıy					
	will decrease admin costs for these proces	sses. (Service Imp	provement,	Property Mgi	mt.					
	Expenditure Decrease)			Total						
				FTEs						
	Project Allocation	Thru	Est	I	Fiscal Yea	r Planned App	propriations	s	FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design				50					50	50
Implementation	1			50	50	25			125	125
Total Allocation	ons			100	50	25			175	175
	Source of Funds	,								
1800 IT Consol	lidated EQ Acquisition Fund (EAF)			100	50	25			175	175
Total Funds				100	50	25			175	175

CITY OF HOUSTON - TIP - Fire

Project:	FIRE-Server Virtualization and Consolidation	on		Category:	Д	sset Replacen	nent (A/R)	Tier 1	(ADOPTED)
				Project Manag	ger: T	racie Watkins		WBS #: TB	D	
				Revision Date	e : 1	/14/2010		TIP #: 99-	10-12-0013	
Description:	HFD has over 25 servers spread across va	rious data cente	rs.		Operat	ional and Mai	ntenance C	osts: (\$ Tho	usands)	
Benefits/ROI:	Server virtualization is an industry best-practice which allows efficient use of existing resources, reduces maintenance costs and downtime and improves services. This project consists of the investment in hardware and software to consolidate data centers. The result will be better utilization of equipment, faster provisioning for new applications, decreased downtime, increased performance. Cost reduction is through decreased admin time, reduced need for hardware. (Service Improvement, Avoids Costs, Risk Avoidance)		sts and ne enters. isioning rmance.	Personnel Supplies Svcs. & Chgs Capital Outla Property Mgr	ny	2011	2012	2013	2014	<u>2015</u>
	•			Total						
				FTEs						
	Project Allocation	Thru	Est	F	Fiscal Year	Planned App	ropriations		FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design			35							35
Implementation	۱		75	50	50	50			150	225
Total Allocation	ons		110	50	50	50			150	260
	Source of Funds					,				
1800 IT Consol	lidated EQ Acquisition Fund (EAF)		110	50	50	50			150	260
Total Funds			110	50	50	50			150	260

CITY OF HOUSTON - TIP - Fire

Project:	Desktop Refresh - FIRE			Category:	А	sset Replacer	nent (A/R)	Tier 1	((ADOPTED)
				Project Mana	ager: T	racie Watkins		WBS #: V-1	800-2011-03	
				Revision Dat	t e : 6	/30/2010		TIP #: 99-	11-12-0025	
Description:	Annual refresh of 20% of legacy desktops and	servers in the	5 year		Operat	ional and Mai	ntenance C	osts: (\$ Tho	usands)	
	refresh plan.					<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
				Personnel						İ
				Supplies						İ
Benefits/ROI:	Reduces risk of failure of equipment. Improve	s services and	d capacity	Svcs. & Cho	js.					İ
	by replacing the oldest 20 percent of equipme	nt with moderr	า	Capital Outl	ay					İ
	equipment.			Property Mg	ımt.					
				Total						
				FTEs						
	Drainet Allegation	Thru	Est		Fiscal Year	Planned App	ropriations		FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	1	819	56	95	200	200	200	273	968	1,843
Total Allocation	ons	819	56	95	200	200	200	273	968	1,843
	Source of Funds									
1800 IT Consol	lidated EQ Acquisition Fund (EAF)	819	56	95	200	200	200	273	968	1,843
Total Funds		819	56	95	200	200	200	273	968	1,843
						1		1		

CITY OF HOUSTON - TIP - Health and Human Services

Project:	Desktop Refresh - HEALTH			Category:	Д	sset Replacen	nent (A/R)	Tier 1	(,	ADOPTED)
				Project Mana	ger: ∖	ernon Hunt		WBS #: V-1	800-2011-03	
				Revision Date	e: 6	/30/2010		TIP #: 99-	11-38-0016	
Description:	Evaluate technology fixed assets that are con	tained within th	ne		Operat	ional and Mai	ntenance C	osts: (\$ Tho	usands)	
	department. Replace fully depreciated assets					<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
				Personnel						
				Supplies						
Benefits/ROI:	Identify, remove and replace all obsolete info	rmation technol	logy	Svcs. & Chg	S.					
	assets. Provide new asset values and provid	e a newer more	e powerful	Capital Outla	ay					
	operating environment to maximize efficiency	of new ERP a	nd network	Property Mg	mt.					
	upgrades.			Total						
				FTEs						
	Drainet Allegation	Thru	Est		Fiscal Year	Planned App	ropriations	5	FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	1	437	223	142	156	76			374	1,034
Total Allocation	ons	437	223	142	156	76			374	1,034
	Source of Funds									
1800 IT Consol	lidated EQ Acquisition Fund (EAF)	437	223	142	156	76			374	1,034
Total Funds		437	223	142	156	76			374	1,034

CITY OF HOUSTON - TIP - Houston Emergency Center

Project:	HEC-CAD Upgrade/Replacement			Category:	A	sset Replacen	nent (A/R)	Tier 1	((ADOPTED)
				Project Mana	ger: J	on Titus		WBS #: X-1	50011	
				Revision Date	e: 6	/30/2010		TIP #: 99-	07-15-0011	
Description:	The current CAD system is in its 7th year of operationally viable and perfroming at an ac	•			Operat	ional and Mai	ntenance Co	osts: (\$ Tho	usands)	
	application is technically dated and the enhancemen An upgrade to the incubment vendor's newer produc additional capabilities, while preserving the customiz through the current system's \$10M+ investment which		ery costly. Il provide nade	Personnel		2011	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
	through the current system's \$10M+ investr 2001-2003 time frame.	ment which was r	nade in	Supplies						
Benefits/ROI:	Risk Avoidance- Preclude the risk of system and hardware of the current system ages.	m failure as the s	oftware	Svcs. & Chg	S.			1,000	1,000	1,000
	Service Improvement - the CAD upgrade w delviered to Fire and Police dispatchers through newer technology. Expenditure Decrease/Avoids Cost - we expenditure	ough the impleme	entation of	Capital Outla						
	decrease in the annual 3rd party maintenar new products more modern design.	nce expenditures	due to the	Total				1,000	1,000	1,000
				FTEs				2.00	2.00	2.00
	During Alloyation	Thru	Est	ľ	Fiscal Year	Planned App	ropriations		FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment		357		400					400	757
Design					1,500				1,500	1,500
Implementation	١					1,500	1,500	1,100	4,100	4,100
Total Allocation	ons	357		400	1,500	1,500	1,500	1,100	6,000	6,357
	Source of Funds									
1800 IT Conso	lidated EQ Acquisition Fund (EAF)	357		400	1,500	1,500	1,500	1,100	6,000	6,357
Total Funds		357		400	1,500	1,500	1,500	1,100	6,000	6,357

CITY OF HOUSTON - TIP - Houston Emergency Center

Project:	Desktop Refresh - HEC			Category:	A	sset Replacer	nent (A/R)	Tier 1	(ADOPTED)
				Project Mana	ager:	avid Folkers		WBS #: V-1	800-2011-03	
				Revision Dat	t e : 6	/30/2010		TIP #: 99-	11-15-0033	
Description:	Annual asset replacement of HEC PCs in sup	port of the call	floor,		Operat	ional and Mai	ntenance C	osts: (\$ Thou	ısands)	
	HEC administrative users as well as Office of	Emergency				<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
	Management Emergency Operations Center (EOC) and OEI	M	Personnel						
	administrative users. Mix of devices is 90% PC	C, 10% laptop.		Supplies						
Benefits/ROI:	Risk Avoidance - due to 24 x7 usage of call flo	or PCs, HEC	is on a 4	Svcs. & Cho	js.					
	year repalcement cycle.			Capital Outla	ay					
				Property Mg	ımt.					
				Total						
				FTEs						
	Drainet Allegation	Thru	Est		Fiscal Yea	Planned App	ropriations	<u>'</u>	FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	l	207	22	24	149	87	87	87	434	663
Total Allocation	ons	207	22	24	149	87	87	87	434	663
	Source of Funds	<u>'</u>								
1800 IT Consol	idated EQ Acquisition Fund (EAF)	207	22	24	149	87	87	87	434	663
Total Funds		207	22	24	149	87	87	87	434	663

CITY OF HOUSTON - TIP - Library

Project:	Desktop Refresh - HPL			Category:	P	sset Replacer	nent (A/R)	Tier 1	(ADOPTED)
				Project Mana	iger: E	mmnauel Mer	enini	WBS #: V-1	800-2011-03	
				Revision Dat	e : 6	/30/2010		TIP #: 99-	07-34-0001	
Description:	Refresh Personal Computers in 5th year or ol	der			Operat	ional and Ma	ntenance C	osts: (\$ Tho	usands)	
						2011	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
				Personnel						
				Supplies						
Benefits/ROI:	Personal Computers reach end of useful life s	oftware has up	ograded	Svcs. & Cho	js.					
	and requires newer processors and compone	nts.		Capital Outl	ay					
				Property Mg	ımt.					
				Total						
				FTEs						
	Drainat Allocation	Thru	Est		Fiscal Yea	Planned App	ropriations		FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	١	414	131	332	663	400	400	369	2,164	2,709
Total Allocation	ons	414	131	332	663	400	400	369	2,164	2,709
	Source of Funds									
1800 IT Conso	lidated EQ Acquisition Fund (EAF)	414	131	332	663	400	400	369	2,164	2,709
Total Funds		414	131	332	663	400	400	369	2,164	2,709
				1		1		1		

CITY OF HOUSTON - TIP - Planning and Development

Project:	PLANNING-EGIS			Category:	Р	roject (P)		Tier 1	(ADOPTED)
				Project Mana	iger: M	ax Samfield		WBS #: X-70	00001	
				Revision Dat	e: 6/	30/2010		TIP #: 99-0	7-70-0001	
Description:	The GIS Technology Division includes 13 FTE	s supported b	y revolving		Operati	onal and Mai	ntenance Co	osts: (\$ Thou	ısands)	
	fund and 16 FTEs by General Fund. GISTD to	o design, build	l, and			<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>
	maintain eGIS; deploy new GIS-based applica	tions and inte	grate	Personnel						
	legacy systems/data.			Supplies		2	2	2	2	3
Benefits/ROI:	Provide information support services for decisi	on makers. R	Reduce	Svcs. & Chg	S.	150			75	
	data errors, replication, and maintenance costs	s. Increase da	ata	Capital Outla	ay					
	accuracy, availability, and integration among d	lepartments.	Enhance	Property Mg	mt.					
	service to citizens.			Total		152	2	2	77	3
				FTEs						
	Dreinet Allegation	Thru	Est		Fiscal Year	Planned App	ropriations		FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation		1,250	162	400	430	500	500	500	2,330	3,742
Total Allocatio	ns	1,250	162	400	430	500	500	500	2,330	3,742
	Source of Funds									
1800 IT Consol	idated EQ Acquisition Fund (EAF)	1,250	162	400	430	500	500	500	2,330	3,742
Total Funds		1,250	162	400	430	500	500	500	2,330	3,742

CITY OF HOUSTON - TIP - Planning and Development

Project: Desktop Re	efresh - Planning			Category:	A	sset Replacer	ment (A/R)	Tier 1		(ADOPTED)
				Project Mana	ager:	/lax Samfield		WBS #: V-1	800-2011-03	
				Revision Da	te: 6	/30/2010		TIP #: 99-	11-70-0010	
Description:					Opera	ional and Ma	intenance C	osts: (\$ Tho	usands)	
						<u>2011</u>	2012	2013	<u>2014</u>	<u>2015</u>
				Personnel						
				Supplies						
Benefits/ROI:				Svcs. & Cho	gs.					
				Capital Outl	ay					
				Property Mo	gmt.					
				Total						
				FTEs						
Project	at Allocation	Thru	Est		Fiscal Yea	r Planned App	propriations		FY11-	Project
Projec	et Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation		34	7	4	11	24	11	7	57	98
Total Allocations		34	7	4	11	24	11	7	57	98
Source of F	unds									
1800 IT Consolidated EQ A	cquisition Fund (EAF)	34	7	4	11	24	11	7	57	98
Total Funds		34	7	4	11	24	11	7	57	98

CITY OF HOUSTON - TIP - Police

Project:	HPD-Mobile Data Strategy			Category:		Project (P)		Tier 1	(ADOPTED)
				Project Mana	iger:	David J. Morg	an	WBS #: X-10	00002	
				Revision Date	e:	6/30/2010		TIP #: 99-0	7-10-0002	
Description:	Retain a consultant to develop strategy to mig private proprietary mobile data network to a m	nodern system	that will		Opera	itional and Ma	aintenance Co	osts: (\$ Thou	ısands)	
	support significantly enhanced operational feather the gathering of internal and external HPD residevelop and implement IP-based mobile data enhanced sharing and data access (i.e., image	sources to pla communication	n for, ons with	Personnel		2011	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>
	magstripes/barcode readers). When impleme will allow HPD to take full advantage of the ca RMS.	ented this new	strategy	Supplies						
Benefits/ROI:	Developing a Mobile Data Stategy will allow H migrate fo a new mobile system over the next	•	•	Svcs. & Chg	js.		1,000	1,000	1,000	1,000
	allow capabilities such as limited in car email a browsers, IP-based communicastions, mapping	ng in patrol ca	rs, digital	Capital Outla	ay					
	cameras, thumb print readers, intra-application advanced field communications/features that	simply cannot	be	Property Mg	ımt.					
	supported by current wireless network. Will en fighting capabilites and allow officers to be mo streets. Intiative supports Service Improveme	ore productive	on the	Total			1,000	1,000	1,000	1,000
				FTEs						
		Thru	Est		Fiscal Yea	ar Planned Ap	propriations	I	FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	1			5,120	6,00	0			11,120	11,120
Total Allocation	ons			5,120	6,00	0			11,120	11,120
	Source of Funds	•				,		1	1	
1800 IT Consol	lidated EQ Acquisition Fund (EAF)			1,500	6,00	0			7,500	7,500
	IPD Port Authority-Mobile Data Project			3,620					3,620	3,620
Total Funds				5,120	6,00	0			11,120	11,120

CITY OF HOUSTON - TIP - Police

Project:	HPD-Neighborhood Protection Case (NPC) Mg	gmt System		Category:	Pr	oject (P)		Tier 1	((ADOPTED)
				Project Mana	iger: As	sistant Chief	Mark	WBS #: X-10	00003	
					Cı	ırran				
				Revision Dat	e: 6/	30/2010		TIP #: 99-0	7-10-0003	
Description:	NPC currently uses a system called FORMS. 1				Operation	onal and Mai	ntenance Co	nete: (\$ Thou	eande)	
	FORMS to be used until an off the shelf CMS of		ed and		Operation	Jilai alia iviai	internative oc	<i>σ</i> εισ. (ψ 1110α	isanus)	
	purchased. Since this was to be a short term s					0044	0040	0040	004.4	0045
	application,the database were developed in ho	, ,				<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
	programmer. This situation caused several ch	•		Personnel						
	inadequate documentation, single point-of-faliu		· · · · · · · · · · · · · · · · · · ·							
	maintenance issues, etc. This project is to det support NPC's future operations or if a COTS s			Supplies						
	better approach. Funding includes the implem									
Benefits/ROI:	This is a critical application for COH and support			Svcs. & Chg	S.	100	100	100		
	requirements for the utilization of a great numb									
	Service Inspectors in the inspection and identif		-	Capital Outla	av					
	commercial and residential hazardous building	s. The upgrad	de or	Oapital Oatit	a y					
	replacement of this critical application will bene	efit the City by	/ both	Property Mg	mt					
	avoiding the risk of the system becoming unus	able/unmana	geable	Froperty wig	1111.					
	(Risk Avoidance) as well as providing additional	·		Tatal		400	400	400		
	Improvement) not available in the internally de-	veloped custo	omized	Total		100	100	100		
	application.									
			-	FTEs		DI			F)/4.4	D
	Project Allocation	Thru 2009	Est	2011		Planned App	-	2045	FY11-	Project
		2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	1	226	200	725	200	200	200	225	1,550	1,976
Total Allocation	ons	226	200	725	200	200	200	225	1,550	1,976
	Source of Funds									
1800 IT Consol	idated EQ Acquisition Fund (EAF)	226	200	725	200	200	200	225	1,550	1,976
Total Funds		226	200	725	200	200	200	225	1,550	1,976

Adopted TIP

CITY OF HOUSTON - TIP - Police

Project:	HPD-Records Mgmt System (RMS)			Category:		Project (P)		Tier 1	((ADOPTED)
				Project Mana	ager:	Richard Willian	ns	WBS #: X-1	00010	
				Revision Da	te:	6/30/2010		TIP #: 99-	07-10-0010	
Description:	Replace Unisys mainframe and assorted standatabases/applications across the department OLO system and moves the department to a r	t. Replaces o			Oper	rational and Ma	aintenance C	osts: (\$ Tho	usands)	
	integrated criminal justice system. Provides s capability, interface with CAD, personnel syste & corrections. Management reports pulled fro standardized.	ingle data ent ems, courts, p	ry prosecution	Personnel		2011	2012	2013	2014	<u>2015</u>
				Supplies						
Benefits/ROI:	This new system will move the department to Records Management System. It will allow us search capabilities of Offense Reports, improve	to provide im	proved	Svcs. & Cho	gs.			451	1,495	
	to HPD leadership and to outside organization can go to the vehicles facilitating a mobile office environment, etc. It will also allow us to interfate technology with other law enforcement organizate and national levels. This is a Risk Avoid of the age of our COBOL program and the nur	is, enhance do the in the car ace using modulations at local ance initiative	ata that dern al, regional, be because	Capital Outl	ay					
	eligible programmers currently on staff. We at to upgrade programs to keep up with new law procedures. We must replace our current sys of newer technology. It also falls into the Serv catagorywe anticipate a significant increase cannot speculate as to the level of gain becau	re stagnant in enforcement tem to take ac rice Improvem in productivity	our ability dvantage nent y, but	Property Mo	gmt.					
	chosen the system. Some increased efficience City's WiFi initiative and the improvement of occumunications system.	y will depend	on the	Total				451	1,495	
				FTEs						
		Thru	Est		Fiscal Ye	ear Planned Ap	propriations		FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment									1.0	
ASSESSITION										

CITY OF HOUSTON - TIP - Police

Design									
Implementation	7,258	4,882	2,250	3,500	3,500	3,500	2,000	14,750	26,890
Total Allocations	7,258	4,882	2,250	3,500	3,500	3,500	2,000	14,750	26,890
Source of Funds									
1800 IT Consolidated EQ Acquisition Fund (EAF)	7,258	4,882	2,250	3,500	3,500	3,500	2,000	14,750	26,890
Total Funds	7,258	4,882	2,250	3,500	3,500	3,500	2,000	14,750	26,890

CITY OF HOUSTON - TIP - Police

Project:	Desktop Refresh - HPD			Category:	A	sset Replacer	nent (A/R)	Tier 1	((ADOPTED)		
				Project Mana	ger: P	atricia Cheesr	nan	WBS #: V-1800-2011-03				
				Revision Date	e: 6/	30/2010		TIP #: 99-	11-10-0050			
Description:	Annual replacement of assets based on 5 year	r replacement	cycle for	Operational and Maintenance Costs: (\$ Thousands)								
	desktops and laptops.					<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>		
				Personnel								
				Supplies								
Benefits/ROI:	Allows the department to maintain client acces	ss devices that	t are	Svcs. & Chg	S.							
	technologically efficient. Without replacing our desktop infrastructure											
	on a regular basis we cannot stay current and run client device			Capital Outla	ay							
	software that is supported by our vendors. This	is initiative sup	ports	Property Mgmt.								
	service improvement and risk avoidance.											
				Total								
				FTEs								
	Project Allocation	Thru	Est	I	Fiscal Year	Planned App	FY11-		Project			
	Project Anocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total		
Assessment												
Design												
Implementation	1	1,684	396	379	1,434	1,200	1,200	1,200	5,413	7,493		
Total Allocations 1,684 39		396	379	1,434	1,200	1,200	1,200	5,413	7,493			
	Source of Funds											
1800 IT Consol	lidated EQ Acquisition Fund (EAF)	1,684	396	379	1,434	1,200	1,200	1,200	5,413	7,493		
Total Funds		1,684	396	379	1,434	1,200	1,200	1,200	5,413	7,493		

CITY OF HOUSTON - TIP - Public Works and Engineering

Project:	PWE-Water/Wastewater Billing System Disa	aster Recovery		Category:		Project (P)		Tier 1	(ADOPTED)		
		Project Manager: Dennis Byrd				WBS #: TBD						
		Revision Date	:			TIP #: 20-07-20-2005						
Description:	Development and implementation of a remote	te disaster reco	very site.	Operational and Maintenance Costs: (\$ Thousands)								
						<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	2015		
				Personnel								
				Supplies								
Benefits/ROI:	Ensure business continuation: operate the v	water/wastewat	er billing	Svcs. & Chgs	6.	300						
	system, bill printing and mailing from the ren	note site within	48 hours	Capital Outla	у							
	after a disaster.			Property Mgn	nt.							
				Total		300						
				FTEs								
	Project Allocation Thru Est		Fiscal Year Planned Appropriation				S	FY11-	Project			
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total		
Assessment												
Design												
Implementation	1			300					300	300		
Total Allocation	ons			300					300	300		
	Source of Funds											
8300 PWE-W 8	& S System Operating Fund			300					300	300		
Total Funds				300					300	300		

CITY OF HOUSTON - TIP - Public Works and Engineering

PWE-Advanced Metering Infrastructure			Category: Project (P)				Tier 1	(ADOPTED			
				Project Manager: Tommy McClung			WBS #: TBD				
	Revision Date:				TIP #: 20-09-20-0055						
Install concentrators and repeaters that interfe	ace with 900 N	MHz Radio	Operational and Maintenance Costs: (\$ Thousands)								
Frequency to transmitting reading to PWE's V	Vater and Was	stewater			2011	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>		
systems.			Personnel		140						
	Supplies		30	30	30	30	30				
Increase billing accuracy, reduce customer co	omplaints, imp	rove	Svcs. & Chg	s.	275	150	150	150	150		
operational staff efficiency and productivity and identify loss and			Capital Outla	ay	400	200	75	75	75		
unaccounted for water.			Property Mgmt.								
			Total 845 380 25				255	255	255		
				FTEs 2.00							
Thru Est			Fiscal Year Planned Appropriations					FY11-	Project		
Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total		
			845	380	255	255	255	1,990	1,990		
Total Allocations			845	380	255	255	255	1,990	1,990		
Source of Funds											
S System Operating Fund			845	380	255	255	255	1,990	1,990		
			845	380	255	255	255	1,990	1,990		
n	Install concentrators and repeaters that interf Frequency to transmitting reading to PWE's V systems. Increase billing accuracy, reduce customer concentrational staff efficiency and productivity are unaccounted for water. Project Allocation Source of Funds	Install concentrators and repeaters that interface with 900 M Frequency to transmitting reading to PWE's Water and Was systems. Increase billing accuracy, reduce customer complaints, impoperational staff efficiency and productivity and identify loss unaccounted for water. Project Allocation Thru 2009 Source of Funds	Install concentrators and repeaters that interface with 900 MHz Radio Frequency to transmitting reading to PWE's Water and Wastewater systems. Increase billing accuracy, reduce customer complaints, improve operational staff efficiency and productivity and identify loss and unaccounted for water. Project Allocation Thru Est 2009 2010 Source of Funds	Install concentrators and repeaters that interface with 900 MHz Radio Frequency to transmitting reading to PWE's Water and Wastewater systems. Increase billing accuracy, reduce customer complaints, improve operational staff efficiency and productivity and identify loss and unaccounted for water. Personnel Supplies Svcs. & Chg Capital Outla Property Mg Total FTES Project Allocation Thru Est 2009 2010 2011 845 Source of Funds System Operating Fund Revision Date Revis	Install concentrators and repeaters that interface with 900 MHz Radio Frequency to transmitting reading to PWE's Water and Wastewater systems. Increase billing accuracy, reduce customer complaints, improve operational staff efficiency and productivity and identify loss and unaccounted for water. Project Allocation Thru Est Fiscal Year 2009 2010 2011 2012 Foreign MHz Radio Operation Supplies Svcs. & Chgs. Capital Outlay Property Mgmt. Total FTES Project Allocation 845 380 Source of Funds System Operating Fund 845 380	Project Manager: Tommy McClur Revision Date:	Project Manager: Tommy McClung Revision Date:	Project Manager: Tommy McClung WBS #: TBE Revision Date: TIP #: 20-01	Project Manager: Tommy McClung Revision Date: Tip #: 20-09-20-0055		

CITY OF HOUSTON - TIP - Public Works and Engineering

Project:	Desktop / Laptop Refresh - PWE (ENT, SR, I	EAF)		Category:	As	Asset Replacement (A/R) Tier 1			((ADOPTED)
				Project Manager: Dennis Byrd				WBS #: V-1	800-2011-03	
				Revision Date	e: 6/	30/2010		TIP #: 20-	11-20-3000	
Description:	Replace outdated desktop and computer con	nponents to sup	port		Operati	onal and Mai	intenance C	osts: (\$ Tho	usands)	
	changes in business and software requireme	nts.				<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
				Personnel						
				Supplies						
Benefits/ROI:	Maintain a preventive maintenance and comp	oonent refresh s	schedule	Svcs. & Chg	JS.					
	to ensure business owners can maintain a high	gh level of perfo	ormance.	Personnel Supplies Svcs. & Chgs. Capital Outlay Property Mgmt. Total FTEs Fiscal Year Planned Appropriations 2011 2012 2013 2014 2015						
				Property Mg	ımt.					
				Total	Dennis Byrd WBS #: V-1800-2011-03 te: 6/30/2010 TIP #: 20-11-20-3000					
				FTEs						
	Project Allocation	Thru	Est	Fiscal Year Planned Appropriations				•	FY11-	Project
	Project Anocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	ı	157	18	647	600	600	600	600	3,047	3,222
Total Allocation	ons	157	18	647	600	600	600	600	3,047	3,222
	Source of Funds									
1800 IT Consol	idated EQ Acquisition Fund (EAF)	157	18	74	140	140	140	140	634	809
2301 PWE-Buil	ding Inspection Fund			82	50	50	50	50	282	282
8300 PWE-W 8	S System Operating Fund			491	410	410	410	410	2,131	2,131
Total Funds		157	18	647	600	600	600	600	3,047	3,222

CITY OF HOUSTON - TIP - Public Works and Engineering

Project:	PWE-WiMAX Network Expansion			Category:	F	Project (P)	Tier 1	(ADOPTEI			
				Project Manag	ger:	Justin Ewald		WBS #: TBD			
·				Revision Date) :		TIP #: 20-11-20-3002				
Description:	Expand WiMAX network to further support connectivity requirements			Operational and Maintenance Costs: (\$ Thousands)							
	for traffic management, water AMR, water and waste water SCADA					<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	
	and security, field access, community broadb	and, parking p	ay	Personnel		300	200				
	stations, and T1 replacement for remote facili	ties.		Supplies		50	50	50	50	50	
Benefits/ROI:	Improved public safety and quality of life throu	ugh more effec	ctive traffic	Svcs. & Chgs	S.	100	100	100	100	100	
	management. Reduce costs, improve revenue collection, and improve			Capital Outla	ıy	3,840	3,975	360	371	382	
	productivity for Utility Customer Service operations. Reduce PWE			Property Mgmt.							
	operating costs by replacing/avoiding commercial T1 lines.			Total 4,290 4,325			510	521	532		
				FTEs		4.00	3.00				
	Thru Est			Fiscal Year Planned Appropriations					FY11-	Project	
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total	
Assessment											
Design				100	100	100	100	100	500	500	
Implementation				4,190	4,225	410	421	432	9,678	9,678	
Total Allocatio	ons			4,290	4,325	510	521	532	10,178	10,178	
	Source of Funds										
5040 PWE-Oth	er Government-Grant Funded			3,750					3,750	3,750	
8305 PWE-Con	nbined Util. Sys. Fund (Enterprise)			540	4,325	510	521	532	6,428	6,428	
Total Funds				4,290	4,325	510	521	532	10,178	10,178	

CITY OF HOUSTON - TIP - Public Works and Engineering

Project:	PWE-Make Ready WiMAX CoLocation	Category:	Pr	oject (P)		Tier 1	(,	ADOPTED)				
	1				Project Manager: Justin Ewald				WBS #: TBD			
				Revision Date):			TIP #: 20-1	1-20-3003			
Description:	To construct a colocation and operations cen	nter for various	PWE	Operational and Maintenance Costs: (\$ Thousands)								
	wireless networks.					<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>		
				Personnel								
				Supplies								
Benefits/ROI:	: Centralize PWE wireless communication center to improve efficiences				S.		10	10	10	10		
	and effectiveness. Reduce cost for contracte	d wireless con	nection.	Capital Outla	у	256	275	103				
				Property Mgr	nt.							
				Total		256	285	113	10	10		
				FTEs								
	Drainet Allocation	Thru	Est	Fiscal Year Planned Appropriations					FY11-	Project		
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total		
Assessment												
Design												
Implementation	l			310	345	213	10	10	887	887		
Total Allocatio	ons			310	345	213	10	10	887	887		
	Source of Funds											
8305 PWE-Con	nbined Util. Sys. Fund (Enterprise)			310	345	213	10	10	887	887		
Total Funds				310	345	213	10	10	887	887		

CITY OF HOUSTON - TIP - Public Works and Engineering

Project:	PWE-Radio Re-Banding Project			Category:		Project (P)		Tier 1	(ADOPTED)
				Project Mana	ger:	Tom Sorley/ IT	D	WBS #: TB	D	
				Revision Date) :	12/15/2009		TIP #: 20-	-11-20-3004	
Description:	Per FCC mandate, relocate all (4) system of	control channels	to new		Opera	ational and Ma	intenance C	Costs: (\$ Tho	usands)	
	FCC provided 800MHz frequencies. Retund	e or replace 2,85	54			<u>2011</u>	2012	2013	<u>2014</u>	<u>2015</u>
	enterprise radios operating on PWE radio s	system.		Personnel						
				Supplies						
Benefits/ROI:	Although rebanding was mandated by the F	FCC, the City has	s opted to	Svcs. & Chg	S.					
	upgrade the radios to the latest model and	software version	for about	Capital Outla	ıy					
	25% of the cost. This will also make the rac	dios capable of o	perating	Property Mgi	mt.					
	on the new 700 MHz radio system when it i	s constructed.		Total						
				FTEs						
	Project Allocation	Thru	Est	ĺ	Fiscal Ye	ar Planned Ap	propriations	5	FY11-	Project
	Project Anocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	1			4,950					4,950	4,950
Total Allocation	ons			4,950					4,950	4,950
	Source of Funds									
8305 PWE-Cor	mbined Util. Sys. Fund (Enterprise)			4,950					4,950	4,950
Total Funds				4,950					4,950	4,950

CITY OF HOUSTON - TIP - Public Works and Engineering

PWE-Construction Drawing Review			Category:	Р	roject (P)		Tier 1	(ADOPTED)
			Project Mana	ger: \/	/illie Gause		WBS #: TB	D	
			Revision Date	e:			TIP #: 20-	11-20-3005	
Provide ability for PWE divisions to receive,	route, review, a	and		Operati	onal and Mai	ntenance Co	sts: (\$ Tho	usands)	
approve construction plans all in an electror	nic format.				<u>2011</u>	<u>2012</u>	2013	<u>2014</u>	<u>2015</u>
			Personnel		70				
			Supplies						
* Reduce average review time 10%.			Svcs. & Chg	s.		45			
* Reduced required storage space and nee	d to move pape	r plans	Capital Outla	ay	100				
from desk to desk during review phase.			Property Mg	mt.					
* Reduced cost to public doing business wi	th COH.		Total		170	45			
			FTEs		1.00				
Project Allocation	Thru	Est	ı	Fiscal Year	Planned App	ropriations		FY11-	Project
Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
			50					50	50
			100					100	100
า			370	45				415	415
ons			520	45				565	565
Source of Funds									
Iding Inspection Fund			520	45				565	565
			520	45				565	565
	Provide ability for PWE divisions to receive, approve construction plans all in an electron * Reduce average review time 10%. * Reduced required storage space and need from desk to desk during review phase. * Reduced cost to public doing business with the project Allocation Project Allocation Source of Funds	Provide ability for PWE divisions to receive, route, review, a approve construction plans all in an electronic format. * Reduce average review time 10%. * Reduced required storage space and need to move paper from desk to desk during review phase. * Reduced cost to public doing business with COH. Project Allocation Thru 2009 Source of Funds	Provide ability for PWE divisions to receive, route, review, and approve construction plans all in an electronic format. * Reduce average review time 10%. * Reduced required storage space and need to move paper plans from desk to desk during review phase. * Reduced cost to public doing business with COH. Project Allocation Thru Est 2009 2010 Source of Funds	Project Mana Revision Date Provide ability for PWE divisions to receive, route, review, and approve construction plans all in an electronic format. Personnel Supplies Svcs. & Chg * Reduced required storage space and need to move paper plans from desk to desk during review phase. * Reduced cost to public doing business with COH. Total Project Allocation Thru Est 2009 2010 2011 50 100 370 Ins Source of Funds ding Inspection Fund Project Mana Revision Date Revision Date Revision Date Revision Date Revision Date Revision Date Revision Date Revision Date Revision Date Revision Date Revision Date Revision Date Supplies Svcs. & Chg Capital Outla Property Mg Total FTES Source of Funds	Project Manager: W. Revision Date: Provide ability for PWE divisions to receive, route, review, and approve construction plans all in an electronic format. Personnel Supplies * Reduce average review time 10%. * Reduced required storage space and need to move paper plans from desk to desk during review phase. * Reduced cost to public doing business with COH. Total FTES Project Allocation Thru Est 2009 2010 Fiscal Year 2011 2012 50 100 370 45 Source of Funds ding Inspection Fund Favi Foreit Manager: W. Revision Date: Project Allocation Operation Project Allocation Operation Thru Est 2009 2010 FISCAL Project Allocation FISCAL Project Allocation FISCAL Project Allocation 50 45 Source of Funds	Project Manager: Willie Gause Revision Date: Provide ability for PWE divisions to receive, route, review, and approve construction plans all in an electronic format. * Reduce average review time 10%. * Reduced required storage space and need to move paper plans from desk to desk during review phase. * Reduced cost to public doing business with COH. Thru Project Allocation Thru 2009 Project Allocation Thru 2009 Thru 2009 Thru 2009 Thru 2011 Thru 2012 Thru 2013 Thru 2014 Thru 2015 Thru 2016 Thru 2016 Thru 2017 Thru 2018 Thru 2019 Thru 2010 Thru 2011 Thru 2012 Thru 2013 Thru 2014 Thru 2015 Thru 2015 Thru 2016 Thru 2016 Thru 2017 Thru 2018 Thru 2018 Thru 2019 Thru 2010 Thru 2011 Thru 2012 Thru 2013 Thru 2014 Thru 2015 Thru 2015 Thru 2016 Thru 2016 Thru 2017 Thru 2018 Thru 2019 Thru 2019 Thru 2010 Thru 2010 Thru 2011 Thru 2012 Thru 2013 Thru 2014 Thru 2015 Thru 2015 Thru 2016 Thru 2016 Thru 2017 Thru 2018 Thru 2018 Thru 2019 Thru 2019 Thru 2010 Thru 2010 Thru 2010 Thru 2011 Thru 2012 Thru 2013 Thru 2012 Thru 2013 Thru 2014 Thru 2015 Thru 2015 Thru 2016 Thru 2	Project Manager: Willie Gause Revision Date: Provide ability for PWE divisions to receive, route, review, and approve construction plans all in an electronic format. * Reduce average review time 10%. * Reduced required storage space and need to move paper plans from desk to desk during review phase. * Reduced cost to public doing business with COH. Total Project Allocation Thru 2011 Personnel Svcs. & Chgs. Capital Outlay 100 Property Mgmt. Total 170 45 FTES 1.00 Project Allocation Thru 2009 2010 Thru 2011 2012 Property Mgmt. Total 170 45 FTES 1.00 FOUR Planned Appropriations 2011 2012 2013 2014 Source of Funds Ging Inspection Fund Total 2012 2013 2014	Project Manager: Willie Gause WBS #: TB Revision Date: TIP #: 20- Provide ability for PWE divisions to receive, route, review, and approve construction plans all in an electronic format. Personnel supplies Total	Project Manager: Willie Gause WBS #: TBD

CITY OF HOUSTON - TIP - Public Works and Engineering

Project:	PWE-Map Based Land Mgnt Docs		Category:		Project (P)		Tier 1	(ADOPTED)	
				Project Mana	ger:	Willie Gause		WBS #: TB	D	
				Revision Date) :			TIP #: 20-	-11-20-3006	
Description:	Present Land Use Management Info in Spati	ial Environment	t. Will		Opera	ational and Mai	ntenance C	Costs: (\$ Tho	usands)	
	provide a web based map browser for retriev	ing spatial info	rmation			<u>2011</u>	<u>2012</u>	2013	<u>2014</u>	<u>2015</u>
	from various data sources.			Personnel		70				
				Supplies						
Benefits/ROI:	Increase employee productivity by significant	tly reducing the	amount of	Svcs. & Chg	s.	215				
	time required to research activities related to	land parcels in	n the COH.	Capital Outla	ay	100				
	Improve decision making by boosting the over	erall quality and	d spacial	Property Mg	mt.					
	accessibility of available information.			Total		385				
				FTEs		1.00				
	Project Allocation	Thru	Est	Ţ I	Fiscal Yea	ar Planned App	ropriations	5	FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	1			385					385	385
Total Allocation	ons			385					385	385
	Source of Funds									
2301 PWE-Buil	lding Inspection Fund			385					385	385
Total Funds				385					385	385

CITY OF HOUSTON - TIP - Public Works and Engineering

Project:	PWE-Static Image Preservation System			Category:	Pr	oject (P)		Tier 1	((ADOPTED)
				Project Mana	iger: W	illie Gause		WBS #: TBI)	
				Revision Dat	e:			TIP #: 20-	11-20-3007	
Description:	System that will capture, manage, store, prese	erve, and deli	ver the		Operati	onal and Ma	intenance C	osts: (\$ Tho	usands)	
	varied documents and document types that ex	kist within PW	E to meet			<u>2011</u>	<u>2012</u>	2013	2014	<u>2015</u>
	state preservation mandatory requirements.			Personnel		70				
				Supplies						
Benefits/ROI:	* Reduction of paper handling and storage			Svcs. & Chg	IS.			68		
	* Online access to information that was forme available only on paper	rly		Capital Outla	•	100				
	* Security over document access and modification	ation		Property Mg	mt.					
	* Provide reliable and accurate audit trail			Total		170		68		
				FTEs		1.00				
	Dunings Allonation	Thru	Est		Fiscal Year	Planned App	propriations	5	FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design				250					250	250
Implementation	1			170	450	68			688	688
Total Allocation	ons			420	450	68			938	938
	Source of Funds	1		-		1		'	-	
2301 PWE-Buil	lding Inspection Fund			420	450	68			938	938
Total Funds				420	450	68			938	938

CITY OF HOUSTON - TIP - Public Works and Engineering

Project:	PWE-Mobility			Category:	Pr	oject (P)		Tier 1		(ADOPTED)
				Project Manag	ger: Os	car Bradford		WBS #:	TBD	
				Revision Date	:			TIP #:	20-11-20-3008	
Description:	The goals of the project are to provide acces	s to the applica	ations for		Operation	onal and Mair	ntenance Co	sts: (\$ T	housands)	
	field based workers in Public Works and Eng	ineering. The b	oackend			<u>2011</u>	<u>2012</u>	2013	<u>2014</u>	<u>2015</u>
	systems will include INFOR EAM 7i, ILMS, E	SRI, City Work	ks, SAP,	Personnel						
	etc			Supplies						
Benefits/ROI:	Provide a mobile solution that will operate on	multiple types	of devices	Svcs. & Chgs	S.	180	40			
	including MS Windows Mobile based PDAs,	laptops, tablets	s, smart-	Capital Outla	у		i			
	phones, and can provide blackberry Outlook	based function	nality as	Property Mgn	nt.					
	well as customized applications for Blackbern	ry.		Total		180	40			
				FTEs						
	Project Allocation	Thru	Est	F	iscal Year	Planned App	ropriations		FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design				30					30	30
Implementation				205	65				270	270
Total Allocatio	ns			235	65				300	300
	Source of Funds									
8300 PWE-W 8	S System Operating Fund			235	65				300	300
Total Funds				235	65				300	300

CITY OF HOUSTON - TIP - Public Works and Engineering

Project:	PWE-Data Retention & Archiving	WE-Data Retention & Archiving			F	roject (P)		Tier 1	((ADOPTED)
				Project Mana	ager:	ennis Byrd		WBS #: TBI)	
				Revision Dat	te:			TIP #: 20-	11-20-3011	
Description:	This project is to reduce storage cost by reduc	cing direct atta	ached		Operat	ional and Ma	intenance C	osts: (\$ Thou	usands)	
	storage per server.					2011	2012	2013	2014	<u>2015</u>
				Personnel						
				Supplies						
Benefits/ROI:	Allows the Department to efficiently manage d	lata storage a	ind	Svcs. & Cho	gs.	50	50	200		
	minimize backup and recovery process for Tier 1 - Tier 3 data. The		Capital Outlay							
	solution is scalable and provides architecture f	for future grov	wth and file	Property Mg	ımt.					
	retention. Improving data access time and use	er productivity		Total		50	50	200		
				FTEs						
	Project Allocation	Thru	Est		Fiscal Year	Planned App	propriations	,	FY11-	Project
	Project Anocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design				50					50	50
Implementation				950	950	200	100	100	2,300	2,300
Total Allocatio	ns			1,000	950	200	100	100	2,350	2,350
	Source of Funds									
2301 PWE-Buil	ding Inspection Fund			200	150				350	350
8300 PWE-W 8	S System Operating Fund			800	800	200	100	100	2,000	2,000
Total Funds				1,000	950	200	100	100	2,350	2,350

CITY OF HOUSTON - TIP - Municipal Courts Administration

Project:	MCAD-ICMS HW Replacement/Refresh			Category:	Д	sset Replacen	nent (A/R)	Tier 1	(ADOPTED)
				Project Mana	ager: R	ex Billings		WBS #: TBD)	
				Revision Dat	e: 4	/21/2010		TIP #: 99-1	0-16-0016	
Description:	Replace current server system component	s as existing con	nponents		Operat	ional and Mai	ntenance C	osts: (\$ Thou	ısands)	
	are over 5 years old.					<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
				Personnel						
				Supplies						
Benefits/ROI:	Funds will be used as neccesary to mainta	in the existing IC	MS	Svcs. & Cho	js.					
	environment until the deployment of the ne	w Court system	and will	Capital Outle	ay	41	65	65	65	234
	protect the revenues collected by the Muni	cipal Courts as t	the existing	Property Mg	ımt.					
	hardware was intalled in 2003 and has rea	ched end of life.		Total		41	65	65	65	234
				FTEs						
	Project Allocation	Thru	Est		Fiscal Year	Planned App	ropriations		FY11-	Project
	Project Anocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation			225	100	65				165	390
Total Allocatio	ons		225	100	65				165	390
	Source of Funds									
1800 IT Consol	idated EQ Acquisition Fund (EAF)		225	100	65				165	390
Total Funds			225	100	65				165	390
i otal Funds			225	100	65				105	

CITY OF HOUSTON - TIP - Municipal Courts Administration

Project:	MCAD-CSMART - Municipal Courts Manager	ment System		Category:	Р	roject (P)		Tier 1		(ADOPTED)
				Project Mana	iger: L	ambert, Stinne	ett,Watson	WBS #: X-	160017	
				Revision Dat	e : 6	/30/2010		TIP #: 99	-10-16-0017	
Description:	Design and implement a custom Case Manag	gement system	for use by		Operat	ional and Mai	ntenance C	osts: (\$ Tho	ousands)	
	Houston Municipal Court.					<u>2011</u>	2012	2013	<u>2014</u>	<u>2015</u>
				Personnel						
				Supplies						
Benefits/ROI:	Successful automation of the labor intensive	work performe	d by Law	Svcs. & Chg	S.					
	Enforcement and Municipal Courts Departme	nts (Judicial, C	Chief Clerk							
	& Legal) with this new System will allow the C	City to reduce ti	ime spent	Capital Outla	ay					
	at court for the public, officers and attorneys/b	oondmen (Serv	/ice	Property Mg	mt					
	Improvement); increase fine & fee collections	(Revenue Inci	rease);	i Toperty Mg	1111.					
	contorol long-term system maintenance costs	(Expenditure		Total						
	Decrease); and decrease system down-time	(Risk Avoidand	ce)							
				FTEs						
	Project Allocation	Thru	Est		Fiscal Year	Planned App	propriations	3	FY11-	Project
	1 Tojoot Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment		250								250
Design			6,560	3,000	3,000	1,250			7,250	13,810
Implementation	ı									
Total Allocation	ons	250	6,560	3,000	3,000	1,250			7,250	14,060
	Source of Funds									
1800 IT Consol	idated EQ Acquisition Fund (EAF)	250	6,560	3,000	3,000	1,250			7,250	14,060
Total Funds		250	6,560	3,000	3,000	1,250			7,250	14,060

CITY OF HOUSTON - TIP - Municipal Courts Administration

Project:	MCAD-Self Service Payment Kiosks	CAD-Self Service Payment Kiosks			F	roject (P)		Tier 1	(ADOPTED)
				Project Mana	ger: J	eff Snell		WBS #: TBD)	
				Revision Date	e: 6	/30/2010		TIP #: 99-1	0-16-0026	
Description:	New payment kiosks				Operat	ional and Mai	ntenance Co	osts: (\$ Thou	ısands)	
						<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
				Personnel						
				Supplies						
Benefits/ROI:	Improved Collection and reduced citizen wait	ing time		Svcs. & Chg	S.	32	32	32	32	
				Capital Outla	ау					
				Property Mg	mt.					
				Total		32	32	32	32	
				FTEs						
	Drainet Allegation	Thru	Est	I	Fiscal Yea	Planned App	ropriations		FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design				35					35	35
Implementation	l			75	100	100	40		315	315
Total Allocatio	ons			110	100	100	40		350	350
	Source of Funds									
1800 IT Consol	idated EQ Acquisition Fund (EAF)			110	100	100	40		350	350
Total Funds				110	100	100	40		350	350

CITY OF HOUSTON - TIP - Municipal Courts Administration

Project:	t: MCAD-Desktop Refresh			Category:	As	sset Replacer	nent (A/R)	Tier 1		(ADOPTED)
				Project Mana	iger: R	ex Billings		WBS #: V-1	800-2011-03	
				Revision Date	e : 6/	30/2010		TIP #: 99-	11-16-0030	
Description:	Prepare for implementation of CSMART by re	placing existing	g PCs with		Operati	onal and Mai	ntenance Co	osts: (\$ Tho	usands)	
	PCs that will support Windows 7					<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
				Personnel						
				Supplies						
Benefits/ROI:	Business necessity to adopt CSMART applica	ation. Will facili	itate	Svcs. & Chg	s.					
	increased revenue and service improvements			Capital Outla	ау					
				Property Mg	mt.					
				Total						
				FTEs						
	Project Allocation	Thru	Est	l	Fiscal Year	Planned App	ropriations		FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	1	199	61	62	150	150	150	165	677	937
Total Allocation	ons	199	61	62	150	150	150	165	677	937
	Source of Funds			,						
1800 IT Consol	lidated EQ Acquisition Fund (EAF)	199	61	62	150	150	150	165	677	937
Total Funds		199	61	62	150	150	150	165	677	937

CITY OF HOUSTON - TIP - Municipal Courts Administration

Project:	MCAD-Collection Module			Category:		Project (P)		Tier 1	(ADOPTED)
				Project Mana	ager:	Rex Billings		WBS #: TBE)	
				Revision Dat	e:	6/30/2010		TIP #: 99-	11-16-0032	
Description:	MCA collection activities do not currently use	•	oplication.		Opera	ational and Ma	intenance Co	osts: (\$ Thou	ısands)	
	Adding this application will improve MCA colle	ection efforts.				2011	2012	2013	<u>2014</u>	<u>2015</u>
				Personnel						
				Supplies						
Benefits/ROI:	Module will provide MCA collection agents wi	th new tools s	uch as	Svcs. & Chg	js.		23	23	23	23
	worklists, skip tracing and work flow increasing the rate of collections		collections.	Capital Outla	ay					
				Property Mg	ımt.					
				Total			23	23	23	23
				FTEs						
	Project Allocation	Thru	Est		Fiscal Ye	ar Planned Ap	propriations		FY11-	Project
	Project Anocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment				25					25	25
Design				25					25	25
Implementation	1			130					130	130
Total Allocation	ons			180					180	180
	Source of Funds								,	
1800 IT Consol	lidated EQ Acquisition Fund (EAF)			155					155	155
2207 MCAD-Te	ech Special Revenue Fund			25					25	25
Total Funds				180					180	180

CITY OF HOUSTON - TIP - Information Technology

Project:	IT-INFRA-UCS PBX			Category:	A	sset Replacen	nent (A/R)	Tier 1	(ADOPTED)
				Project Mana	ger: G	. Morris/D.Ste	ege / W.	WBS #: X-6	80000	
					G	rant				
				Revision Date	e: 6/	1/3010		TIP #: 99-	07-68-0001	
Description:	Service Improvements: Replacement of 27	Legacy PBXs, of	which will							
	facilitate modern and unified communicatio	ns including voice	e, video		Operati	onal and Mai	ntenance C	osts: (\$ Tho	usands)	
	and text. Risk Avoidance: The implementa	ation will update t	he							
	telephone systems to take advantage of the	`	•			<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>
	eliminating the potential failures inherent w									
	infrastructure and systems. The older systems			Personnel						
	without an ability to recover or fail over since		•							
	support the systems. Also, third-party supp	•		Supplies						
	problematic, costly and very rarely provides	s more than a sto	p-gap							
- « .	measure of recovery.									
Benefits/ROI:	Service Improvement: Required technology	•	•	Svcs. & Chg						
	20+ yr old or high profile problematic system	• •		Capital Outla	•					
	mitigation against lost or reduced services	due to systems ra	allure.	Property Mg Total	m.					
				FTEs						
		Thru	Est		Fiscal Voor	Planned App	ropriations		FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	1	1,200	800	500	1,000	1,000	1,000	494	3,994	5,994
Total Allocation		1,200	800	500	1,000	1,000	1,000	494	3,994	5,994
	Source of Funds	, , , ,		1	,	,	,		, -	, -
1800 IT Conso	lidated EQ Acquisition Fund (EAF)	1,200	800	500	1,000	1,000	1,000	494	3,994	5,994
Total Funds	indated EQ Acquisition 1 and (EAL)	1,200	800	500	1,000	1,000	1,000	494	3,994	5,994
- Ctarr ands		.,_00			.,	.,550	.,550	.01		

CITY OF HOUSTON - TIP - Information Technology

Project:	IT-INFRA-Active Directory& Exchange Mig	ration		Category:		Project (P)		Tier 1	(ADOP	
				Project Manag	ger:	Gary Morris		WBS #: X-68	0001	
				Revision Date	e :	6/30/2010		TIP #: 99-0	7-68-0002	
Description:	Program goal is to upgrade and consolidat	e the City Window	s and		Oper	ational and Mair	ntenance Co	osts: (\$ Thou	sands)	
	Email infrastructure. The program was init phases with RED as Phase I and ADEX as complexity and budgetary concerns, Phase HPD separately.	Personnel Supplies		<u>2011</u> -64	2012	2013	2014	<u>2015</u>		
Benefits/ROI:	Benefits/ROI: Required. Current versions not supported. Supports modern application integration. Reduces business productivity loss due to incompatible software. Reduced price & Ops cost.		Svcs. & Chgs Capital Outla Property Mgr	ıy	-70	-70	-70			
				Total		-134	-70			
				FTEs		-1.00				
	Project Allocation	Thru	Est	F	Fiscal Ye	ar Planned App	ropriations		FY11-	Project
	1 Toject Anocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation	า	6,962	3,166	1,426					1,426	11,554
Total Allocation	ons	6,962	3,166	1,426					1,426	11,554
	Source of Funds									
1800 IT Consol	lidated EQ Acquisition Fund (EAF)	6,962	3,166	1,426					1,426	11,554
Total Funds		6,962	3,166	1,426					1,426	11,554

CITY OF HOUSTON - TIP - Information Technology

Project:	IT-Server Storage/SAN Asset Replacement			Category:	Д	sset Replacen	nent (A/R)	Tier 1	(ADOPTED)		
				Project Mana	iger: G	ary Morris / D	an Steege	WBS #: X-6	80002			
				Revision Date	e : 6	/30/2010		TIP #: 99-	07-68-0003			
Description:	Annual refresh of the legacy servers/storage for	or all ITD supp	orted	Operational and Maintenance Costs: (\$ Thousands)								
	departments based on mfg stated useful life.	Includes growt	th.			<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>		
				Personnel								
				Supplies		10						
Benefits/ROI:					S.							
	consolidation plans for late 2010, reduces business producti			Capital Outla	ay							
	due to device failure and supports effective dis	saster recovery	y. Lowers	Property Mg	mt.							
	long-term costs. Addresses records retention.			Total		10						
				FTEs								
	Project Allegation	Thru	Est		Fiscal Year	Planned App	ropriations		FY11-	Project		
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total		
Assessment												
Design												
Implementation	1	937	475	1,150	1,000	1,000	1,000	1,000	5,150	6,562		
Total Allocation	ons	937	475	1,150	1,000	1,000	1,000	1,000	5,150	6,562		
	Source of Funds	<u> </u>										
1800 IT Conso	lidated EQ Acquisition Fund (EAF)	937	475	1,150	1,000	1,000	1,000	1,000	5,150	6,562		
Total Funds		937	475	1,150	1,000	1,000	1,000	1,000	5,150	6,562		

CITY OF HOUSTON - TIP - Information Technology

Project:	IT-APPS-Call Center (3-1-1 Refresh)			Category:	А	sset Replacer	nent (A/R)	Tier 1	((ADOPTED)	
				Project Mana	ger: S	tinnett		WBS #: X-68	31001		
				Revision Date	e: 6	/30/2010	TIP #: 99-0	TIP #: 99-07-68-1001			
Description:	This TIP covers only the Call Center costs for	or Refreshing 3-	1-1,		Operat	ional and Mai	ntenance Co	osts: (\$ Thou	ısands)		
	expanding Core A fail-over, and upgrading 0	Core B to the cur	rent			<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	
	release. CRM funding for the 3-1-1 Refresh	is addressed in	the CRM	Personnel		200	100				
	TIP request.			Supplies							
Benefits/ROI:				Svcs. & Chg	s.		55	52			
				Capital Outla	ay	25	116				
				Operational and Maintenance Costs: (3 2011 2012 20							
				Total		225	271	52			
				FTEs		2.00	1.00				
	Project Allegation	Thru	Est	I	Fiscal Year	Planned App	ropriations		FY11-	Project	
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total	
Assessment											
Design					190				190	190	
Implementation	ı	1,633	622	1,000	250	250			1,500	3,755	
Total Allocation	ons	1,633	622	1,000	440	250			1,690	3,945	
	Source of Funds										
1800 IT Consol	idated EQ Acquisition Fund (EAF)	1,633	520	1,000	250	250			1,500	3,653	
2002 Health-Sp	pecial Revenue Fund				190				190	190	
2207 MCAD-Te	ech Special Revenue Fund		102							102	
Total Funds		1,633	622	1,000	440	250			1,690	3,945	

CITY OF HOUSTON - TIP - Information Technology

Project:	IT-INFRA-Network Replacement			Category:		Asset Replacen	nent (A/R)	Tier 1		(ADOPTED)
				Project Mana	ger: (Gary Morris / W	ayne Grant	WBS #: X-09	6899	
				Revision Date	e: (6/30/2010		TIP #: 99-0	9-09-6899	
Description:	Risk Avoidance: Annual Refresh of 20% of net				Opera	tional and Mai	ntenance Co	osts: (\$ Thoเ	ısands)	
	serviced by ITD. Refreshed schedule is based useful life/MTBF statements. Includes network					<u>2011</u>	2012	<u>2013</u>	2014	<u>2015</u>
	Improvement: The refresh plan ensures an "E	vergreen" env	vironment	Personnel						
	with a reduced rate of equipment failure, thus aged or unsupported equipment.	minizing outag	ges due to	Supplies						
Benefits/ROI:	Reduces the short and long term maintenance	costs when c	ombined	Svcs. & Chg	s.					
	with "Smart Spare" plan. Service Improvemen	nt: Reduces pr	oductivity	Capital Outla	ay					
	losses due to equipment failures and system	outages.		Property Mgmt.						
				Total						
				FTEs						
	Project Allocation	Thru	Est	ı	Fiscal Yea	r Planned App	ropriations		FY11-	Project
	Project Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation		300	625	1,000	1,000	1,000	1,500	1,500	6,000	6,925
Total Allocatio	ns	300	625	1,000	1,000	1,000	1,500	1,500	6,000	6,925
	Source of Funds									
1800 IT Consol	idated EQ Acquisition Fund (EAF)	300	625	1,000	1,000	1,000	1,500	1,500	6,000	6,925
Total Funds		300	625	1,000	1,000	1,000	1,500	1,500	6,000	6,925

CITY OF HOUSTON - TIP - Information Technology

Project:	IT-APPS-ARA-1-Stop Permitting			Category:	P	roject (P)		Tier '	1	(ADOPTED)
				Project Mana	ger: A	l Moran / Stinn	ett	WBS #:	X-650003	
				Revision Date	e: 6/	30/2010		TIP #:	99-09-65-0003	
Description:	1-Stop Permitting involves integrating multiple	•	•		Operati	onal and Mai	ntenance Co	osts: (\$	Thousands)	
in the minimum number of steps. The Umbrella application would have public-facing, front-counter, and back-office components Benefits/ROI: RI: Reducing the number of trips/steps/interfaces required to transact business with the City should increase the level of compliance and the value of fees collected. SI: Reducing the number of				Personnel Supplies Svcs. & Chgs. Capital Outlay		2011 2012 100 100		2013	3 2014	2015
	trips/steps/interfaces required to transact bus	iness with the (City	Property Mgi		100				
	should reduce the amount of effort required b	y citizens to tra	nsact	Total 100 100						
				FTEs		1.00	1.00			
	Project Allocation	Thru	Est	i	Fiscal Year	Planned App	ropriations		FY11-	Project
	1 Tojest Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation		697		500	300	200			1,000	1,697
Total Allocation	ns	697		500	300	200			1,000	1,697
	Source of Funds									•
1800 IT Consol	idated EQ Acquisition Fund (EAF)	697		500	300	200			1,000	1,697
Total Funds		697		500	300	200			1,000	1,697

CITY OF HOUSTON - TIP - Information Technology

Project:	ITD-ERP-SAP Business Intelligence			Category:		Project (P)		Tier 1	(,	ADOPTED)	
				Project Manag	ger:	Lambert/Grant		WBS #: X-6	81009		
				Revision Date: 6/30/2010			TIP #: 99-09-68-1009				
Description:	This project will include the purchase and im	plementation of	the		Opera	ational and Ma	intenance C	Costs: (\$ Tho	usands)		
	remaining Business Intelligence components	of Rapid Marts				<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	
	developed by SAP.			Personnel							
				Supplies							
Benefits/ROI:	This return will include the automation of Cor	mprehensive An	nual	Svcs. & Chgs.							
	Financial Report reporting and other financia	I reports that inc	ludes	Capital Outla	ıy						
	only the general ledger data files.			Property Mgr	mt.						
				Total							
				FTEs							
	Project Allocation	Thru	Est	F	Fiscal Yea	ar Planned Ap	propriations	6	FY11-	Project	
	Project Anocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total	
Assessment											
Design				400					400	400	
Implementation	1	1,143	1,664	515					515	3,322	
Total Allocation	ons	1,143	1,664	915					915	3,722	
	Source of Funds	<u>'</u>									
1800 IT Consol	lidated EQ Acquisition Fund (EAF)	1,143	1,664	915					915	3,722	
Total Funds		1,143	1,664	915					915	3,722	

CITY OF HOUSTON - TIP - Information Technology

Project:	IT-RADIO-700 MHz Public Safety Radio Sy	stem Project		Category:	ſ	Project (P)		Tier 1		ADOPTED)		
				Project Mana	iger:	Fom Sorley / C	hris Grasso	WBS #: X-6	687000			
				Revision Date: 1/5/2010				TIP #: 99-09-68-7000				
Description:	Radio Communication System - This project	t will replace exis	ting	Operational and Maintenance Costs: (\$ Thousands)								
	system for Police, Fire, Public Works and E	•	Aviation			<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>		
	Departments with one centrally managed s	ystem.		Personnel								
				Supplies								
Benefits/ROI:	Existing systems have reached end of life.		art system	Svcs. & Chg	•							
	will dramatically increase reliability, coverage	ge, capacity, and		Capital Outla	-							
	interoperability.			Property Mg	ımt.							
				Total								
		Thru		FTEs		51			E)/4.4	B		
	Project Allocation		Est			r Planned App			FY11-	Project		
		2009	2010	2011	2012	2013	2014	2015	FY15	Total		
Assessment												
Design												
Implementation	n	16,317	14,142	34,177	24,364	45,672			104,213	134,672		
Total Allocation	ons	16,317	14,142	34,177	24,364	45,672			104,213	134,672		
	Source of Funds											
8012 HAS-AIF	Capital Outlay Fund (Enterprise)			3,043					3,043	3,043		
8305 PWE-Cor	mbined Util. Sys. Fund (Enterprise)			3,181	3,610	3,505			10,296	10,296		
Radio-Anticipat	ted Grants			1,764	20,75	7,409			29,927	29,927		
Radio-Existing	CIPs	3,324	2,742	2,800		25,135			27,935	34,001		
Radio-Existing	Grants	12,993	11,400	23,389					23,389	47,782		
Radio-General	Fund PIBs					9,623			9,623	9,623		
Total Funds		16,317	14,142	34,177	24,364	45,672			104,213	134,672		

CITY OF HOUSTON - TIP - Information Technology

Project:	IT-INFRA-Data Center & Server Transformati	on		Category:	Pro	oject (P)		Tier 1		(ADOPTED)
				Project Manag	-	ry Morris		WBS #: X-68	2016	
				Revision Date	: 6/3	30/2010		TIP #: 99-1	0-68-2016	
Description:	Assess core and distribution data centers, IT processes, and city-wide server inventory. Ef	fort includes o	comparing		Operatio	onal and Mai	ntenance Co	sts: (\$ Thou	sands)	
	city cost of IT data center and server services to identify cost savings opportunities and to a alternatives defined as outsourcing, in-sourcing	ssess sourcing	g			<u>2011</u>	2012	<u>2013</u>	2014	<u>2015</u>
	scenarios. Perform an assessment of alternat server consolidation to enhance city-wide IT of	ives for data o	center and	Personnel			-560	-565	-570	
	management that includes disaster recovery operating costs, and improved service levels.	•		Supplies			-975	-978	-980	
Benefits/ROI:	This project will lead to an effective disaster refirst time in the City's history involving two cer and a cold off-site location further inland as a	nters with redu back-up site.	indancy The ROI	Svcs. & Chgs Capital Outla						
	involves economies of scale related to server virtualization, as well as, avoidance of system	outages of cr	ritical public	Property Mgr	mt.					
	safety and public service systems during eme events and will also result in improved service	• •	gement	Total			-1,535	-1,543	-1,550	
			1	FTEs			-6.70	-6.70	-6.70	
	Project Allocation	Thru 2009	Est 2010	2011	iscal Year F 2012	Planned App 2013	ropriations 2014	2015	FY11- FY15	Project Total
Assessment										
Design										
Implementation			342	1,000	1,000	1,000	1,000	2,000	6,000	6,342
Total Allocation	ns		342	1,000	1,000	1,000	1,000	2,000	6,000	6,342
	Source of Funds									
1800 IT Consol	idated EQ Acquisition Fund (EAF)		342	1,000	1,000	1,000	1,000	2,000	6,000	6,342
Total Funds			342	1,000	1,000	1,000	1,000	2,000	6,000	6,342

CITY OF HOUSTON - TIP - Information Technology

Project:	Automated Time & Attendance System	(Kronos)		Category:		Project (P)		Tier 1		(ADOPTED)	
				Project Manag	ger:	Al Moran / Don I	Pagel	WBS #: X-65	0010		
				Revision Date: 6/30/2010				TIP #: 99-11-65-0010			
Description:	System will allo the City to centralize and tra				Opera	tional and Mair	ntenance Co	sts: (\$ Thou	sands)		
	pay for all City employees - Fully automated system which includes the software licensing	g, system hostir	ng,			<u>2011</u>	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>	
	application development and implementation			Personnel							
	include Multiple T&A devices, Application Ho Education/Training and ongoing maintenanc		erface,	Supplies							
Benefits/ROI:	TBD by Project Manager			Svcs. & Chgs	S.	162	799	799	637	637	
				Capital Outla	у						
				Property Mgn	nt.						
				Total		162	799	799	637	637	
				FTEs							
	Project Allocation	Thru	Est	F	iscal Yea	r Planned App	ropriations		FY11-	Project	
	1 Toject Allocation	2009	2010	2011	2012	2013	2014	2015	FY15	Total	
Assessment											
Design											
Implementation				8,354					8,354	8,354	
Total Allocation	ns			8,354					8,354	8,354	
	Source of Funds										
1800 IT Consol	idated EQ Acquisition Fund (EAF)			8,354					8,354	8,354	
Total Funds				8,354					8,354	8,354	

CITY OF HOUSTON - TIP - Information Technology

Project:	IT-INFRA-Desktop Refresh-ITD & NON-CTO	O Depts		Category:	Д	sset Replacen	nent (A/R)	Tier 1		(ADOPTED)
				Project Mana	iger: 🤆	Sary Morris/P.	Suber/M.	WBS #: V-1	800-2011-03	
					F	lousley				
				Revision Dat	e : 6	/30/2010		TIP #: 99-	11-68-1100	
Description:	Annual Refresh of 20% of desktops serviced	d by ITD. ITD cւ	urrently		Operat	ional and Mai	ntenance C	osts: (\$ Thou	ısands)	
	supports 11 City Departments.					2011	2012	<u>2013</u>	<u>2014</u>	<u>2015</u>
				Personnel						
				Supplies						
Benefits/ROI:	, , , , , , , , , , , , , , , , , , ,			Svcs. & Chg						
	incompatible/unique desktop configurations	required for mo	dern	Capital Outla	-					
	applications. Better pricing.			Property Mg	mt.					
				Total						
				FTEs						
	Project Allocation	Thru	Est		Fiscal Year	Planned App	ropriations		FY11-	Project
		2009	2010	2011	2012	2013	2014	2015	FY15	Total
Assessment										
Design										
Implementation		1,601	438	1,888	589	783	750	750	4,760	6,799
Total Allocation	ns	1,601	438	1,888	589	783	750	750	4,760	6,799
	Source of Funds									
1800 IT Consol	idated EQ Acquisition Fund (EAF)	1,601	438	1,888	589	783	750	750	4,760	6,799
Total Funds		1,601	438	1,888	589	783	750	750	4,760	6,799